

CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE SOUTH FORK CUMBERLAND RIVER WATERSHED

4.1 Background.

4.2. Characterization of HUC-10 Subwatersheds

4.2.A. 0513010401 (New River)

4.2.B. 0513010402 (Clear Fork)

4.2.C. 0513010403 (White Oak Creek)

4.2.D. 0513010404 (Big South Fork Cumberland River)

4.2.E. 0513010405 (North White Oak Creek)

4.2.F. 0513010407 (Little South Fork Cumberland River)

4.1. BACKGROUND. This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
- ii.a. Description of facilities discharging to water bodies listed on the 2004 303(d) list
- iii. Description of nonpoint source contributions

The Tennessee portion of the South Fork Cumberland River Watershed (HUC 05130104) has been delineated into six HUC 10 (10-digit) subwatersheds, each of which is composed of one or more HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

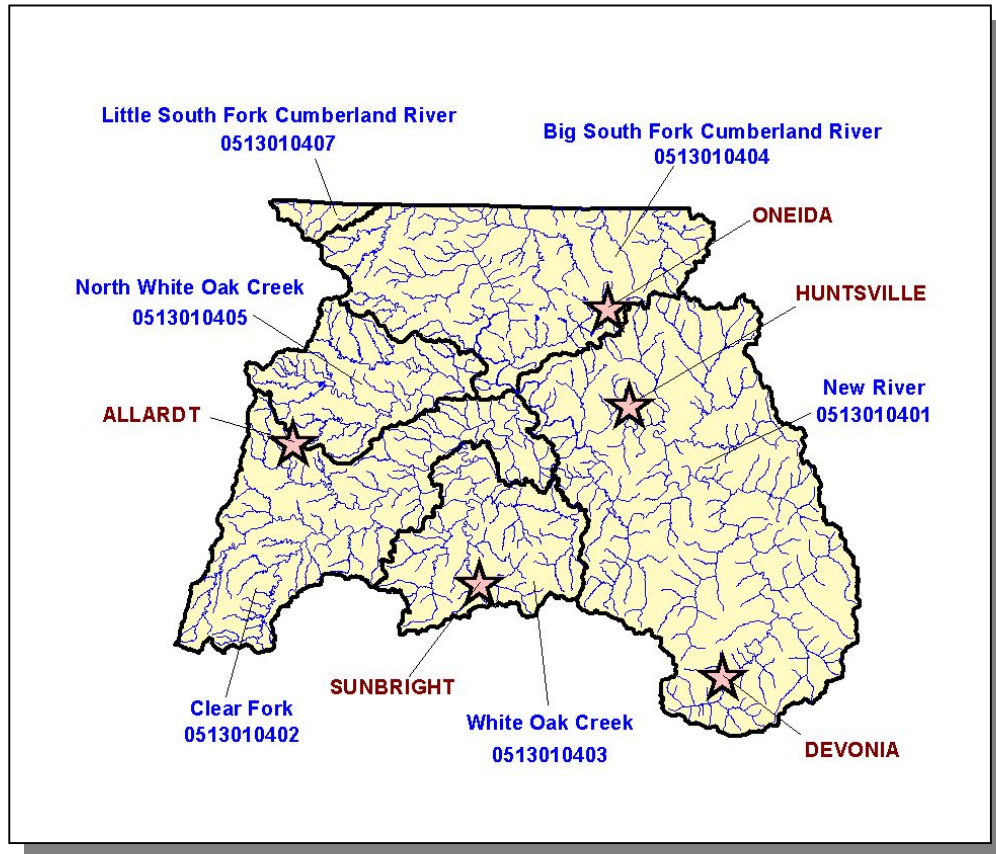


Figure 4-1. The Tennessee Portion of the South Fork of the Cumberland River Watershed is Composed of Six USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Allardt, Devonia, Huntsville, Oneida, and Sunbright are shown for reference.

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4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the South Fork Cumberland River Watershed.

HUC-10	HUC-12
0513010401	051301040101 (New River)
	051301040102 (New River)
	051301040103 (Smokey Creek)
	051301040104 (New River)
	051301040105 (Buffalo Creek)
	051301040106 (New River)
	051301040107 (Brimstone Creek)
	051301040108 (New River)
0513010402	051301040201 (North Prong Clear Fork)
	051301040202 (South Prong Clear Fork)
	051301040203 (Upper Clear Fork)
	051301040204 Crooked Creek)
	051301040205 (Lower Clear Fork)
0513010403	051301040301 (Upper Whiteoak Creek)
	051301040302 (Camp Creek)
	051301040303 (Black Wolf Creek)
	051301040304 (Lower Whiteoak Creek)
0513010404	051301040401 (Big South Fork)
	051301040402 (Pine Creek)
	051301040403 (Station Camp Creek)
	051301040404 (Big South Fork)
	051301040405 (Bear Creek)
	051301040407 (Roaring Paunch Creek)
	051301040408 (Rock Creek)
0513010405	051301040501 (North Whiteoak Creek)
	051301040502 (Laurel Fork)
0513010407	051301040701 (Little South Fork)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.

4.2.A. 0513010401.

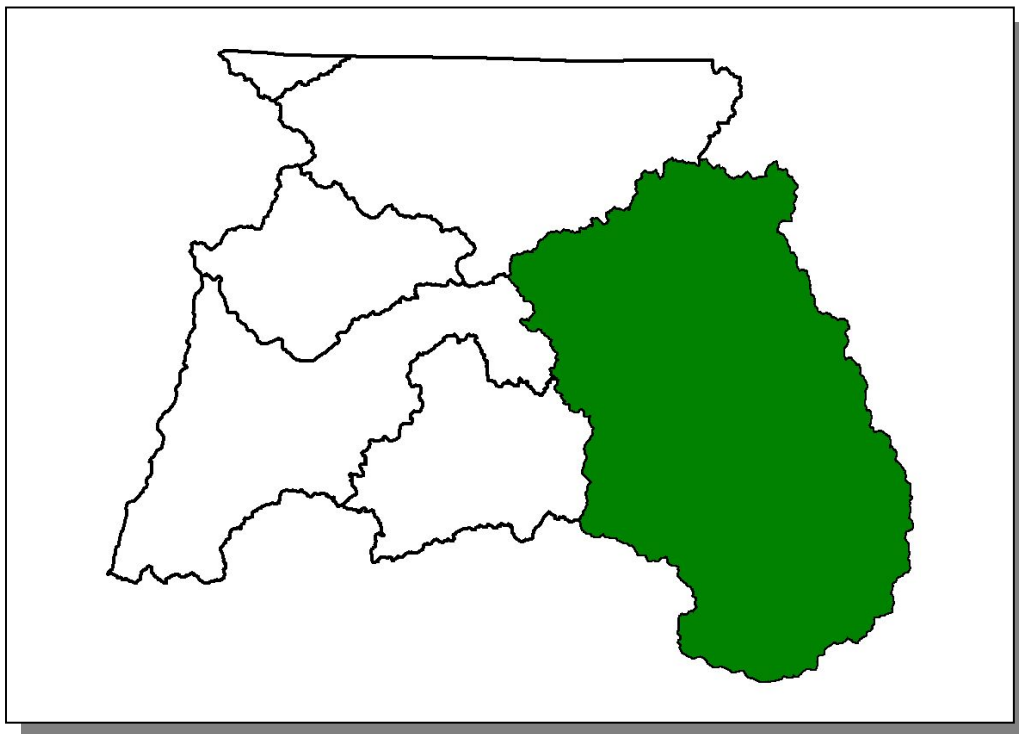


Figure 4-2. Location of Subwatershed 0513010401. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.A.i. 051301040101 (New River).

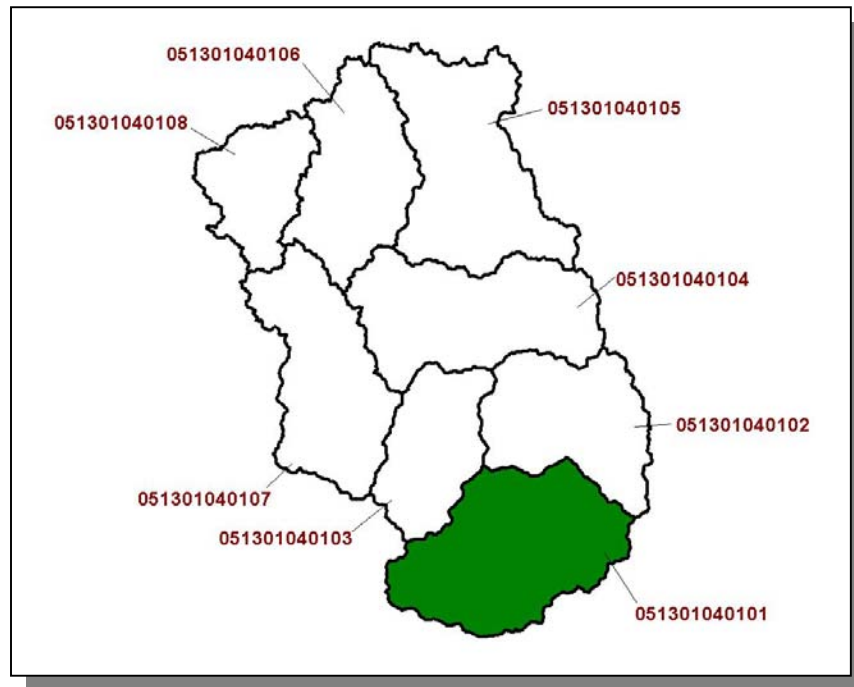


Figure 4-3. Location of Subwatershed 051301040101. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

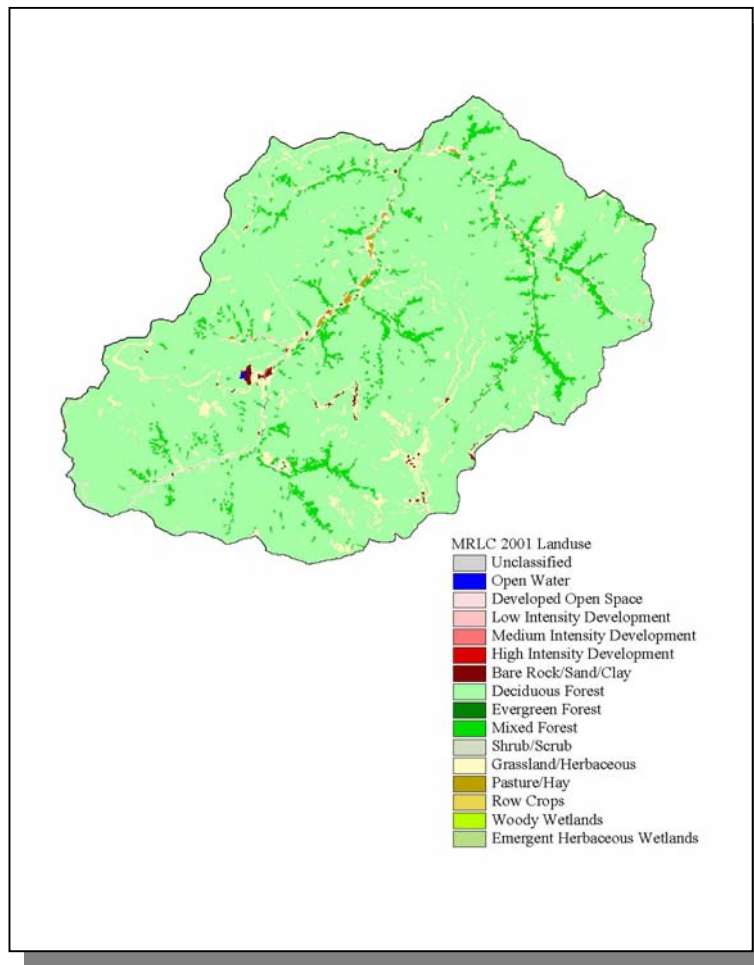


Figure 4-4. Illustration of Land Use Distribution in Subwatershed 051301040101.

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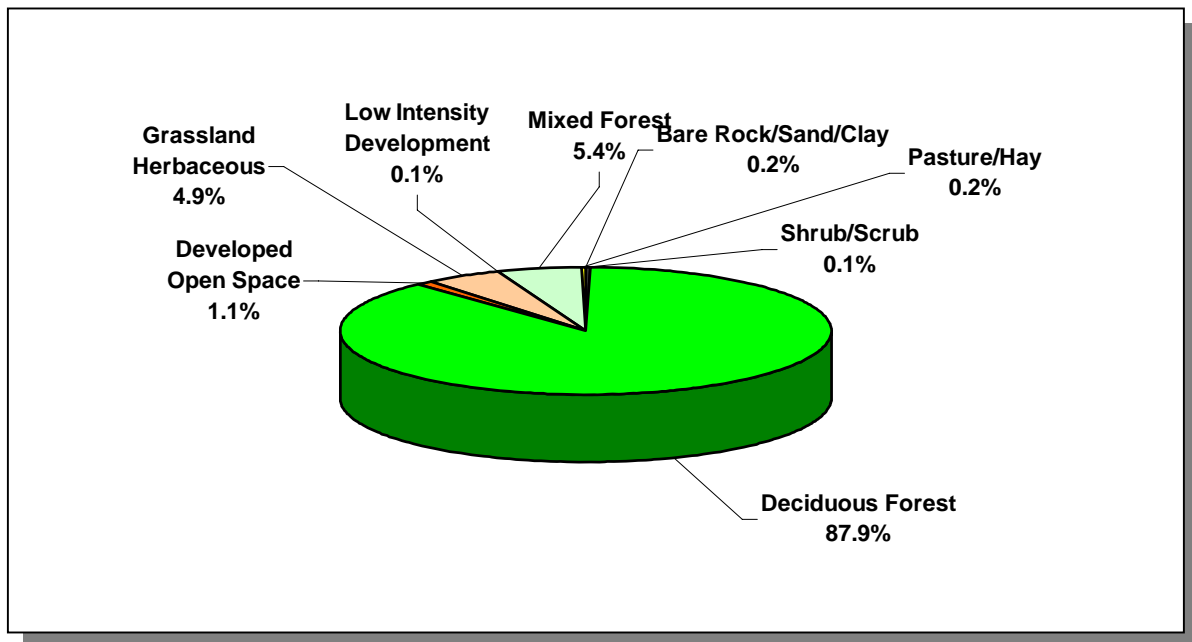


Figure 4-5. Land Use Distribution in Subwatershed 051301040101. More information is provided in Appendix IV.

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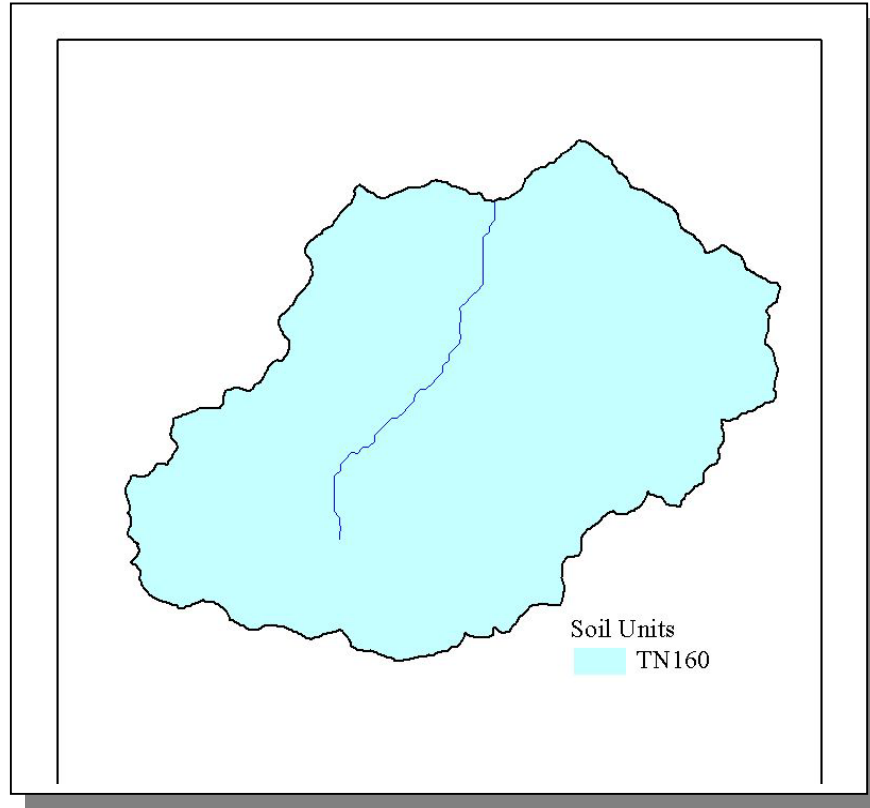


Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040101. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Anderson	68,250	71,498	71,330	18.21	12,427	13,019	12,988	4.5
Campbell	35,079	37,878	39,854	0.01	4	4	5	25.0
Morgan	17,300	18,521	19,757	0.1	121	129	138	14.0
Scott	18,358	19,816	21,127	0.06	12	13	14	16.7
Total	138,987	147,713	152,206		12,564	13,165	13,145	4.6

Table 4-3. Population Estimates in Subwatershed 051301040101.

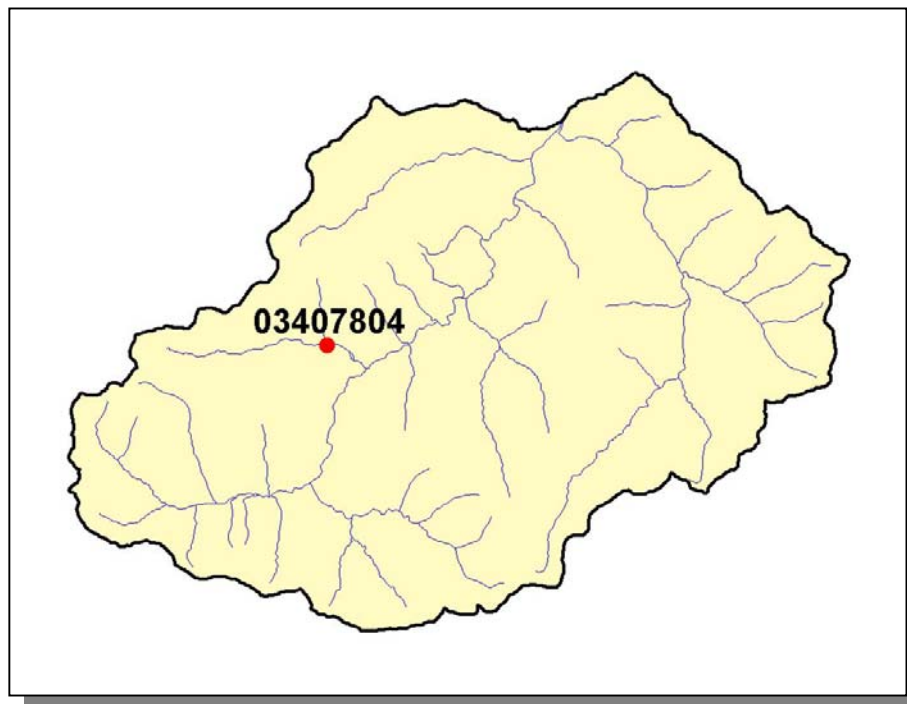


Figure 4-7. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040101. More information is provided in Appendix IV.

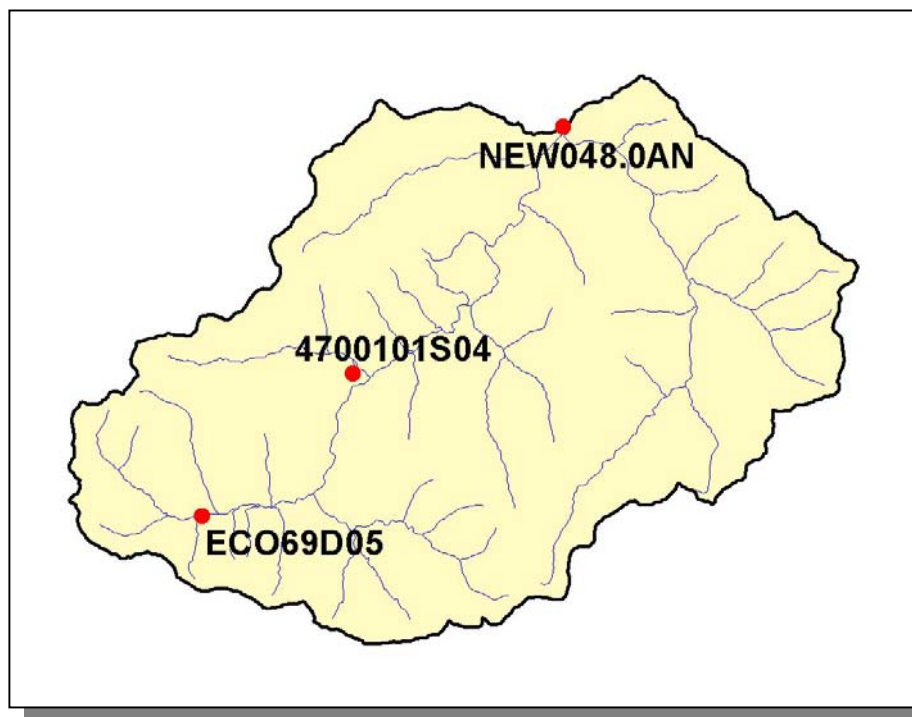


Figure 4-8. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040101. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.i.a. Point Source Contributions.



Figure 4-9. Location of Permits Issued in Subwatershed 051301040101. More information, including the names of facilities, is provided in Appendix IV.

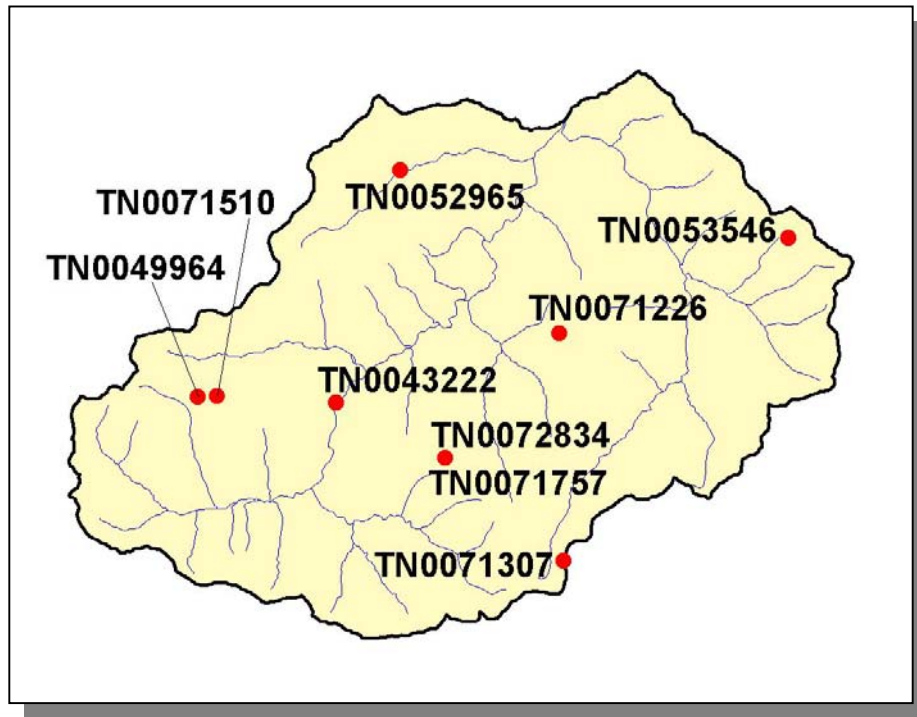


Figure 4-10. Location of Active Mining Sites in Subwatershed 051301040101. More information, including the names of mining operations, is provided in Appendix IV.

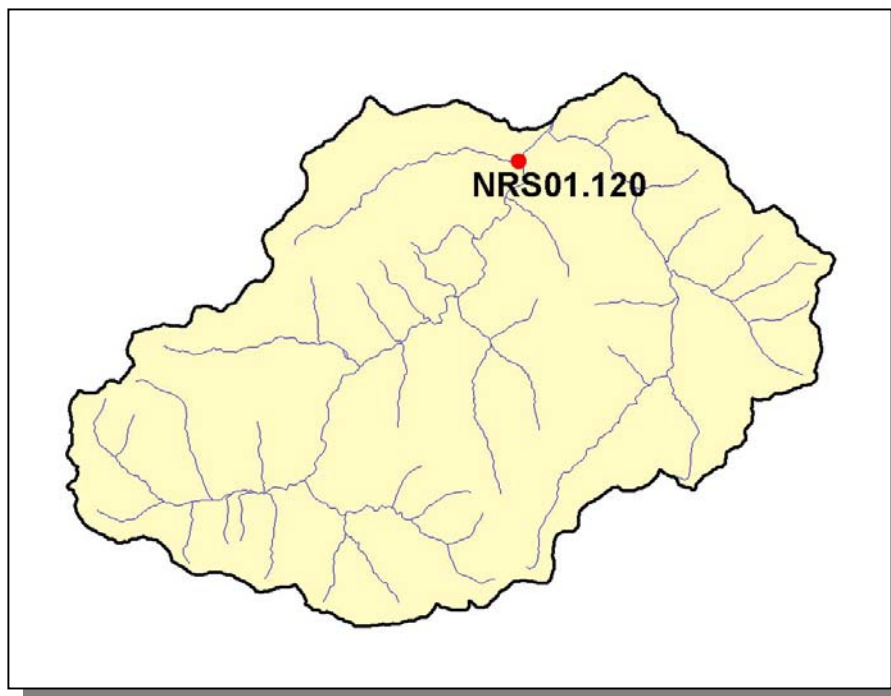


Figure 4-11. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301040101. More information is provided in Appendix IV.

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4.2.A.i.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
95	202	7	<5	455	0	<5

Table 4-4. Summary of Livestock Count Estimates in Subwatershed 051301040101. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Anderson	4,449	9,458	335		769		135
Campbell	4,083	7,684	66		8	14	
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-5. Summary of Livestock Count Estimates in Anderson, Campbell, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Anderson	124.0	124.0	2.6	6.0
Campbell	250.3	250.2	2.6	10.6
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-6. Forest Acreage and Annual Removal Rates (1987-1994) in Anderson, Campbell, Morgan, and Scott Counties.

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CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.37
Grass (Hayland)	0.75
Legumes (Hayland)	1.07
Legumes, Grass (Hayland)	3.18
Grass, Forbs, Legumes (Mixed Pasture)	1.60
Corn (Row Crops)	7.18
Tobacco (Row Crops)	1.63
Other Vegetable Truck Crops	12.05
Other Land in Farms	0.23
Farmsteads and Ranch Headquarters	1.00

Table 4-7. Annual Estimated Total Soil Loss in Subwatershed 051301040101.

4.2.A.ii. 051301040102 (New River).

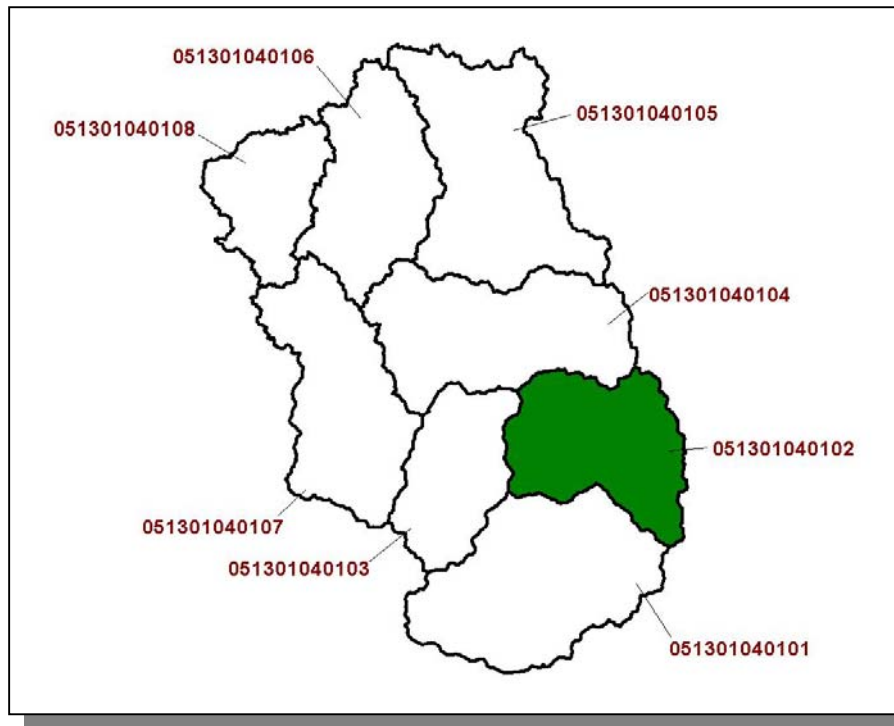


Figure 4-12. Location of Subwatershed 051301040102. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

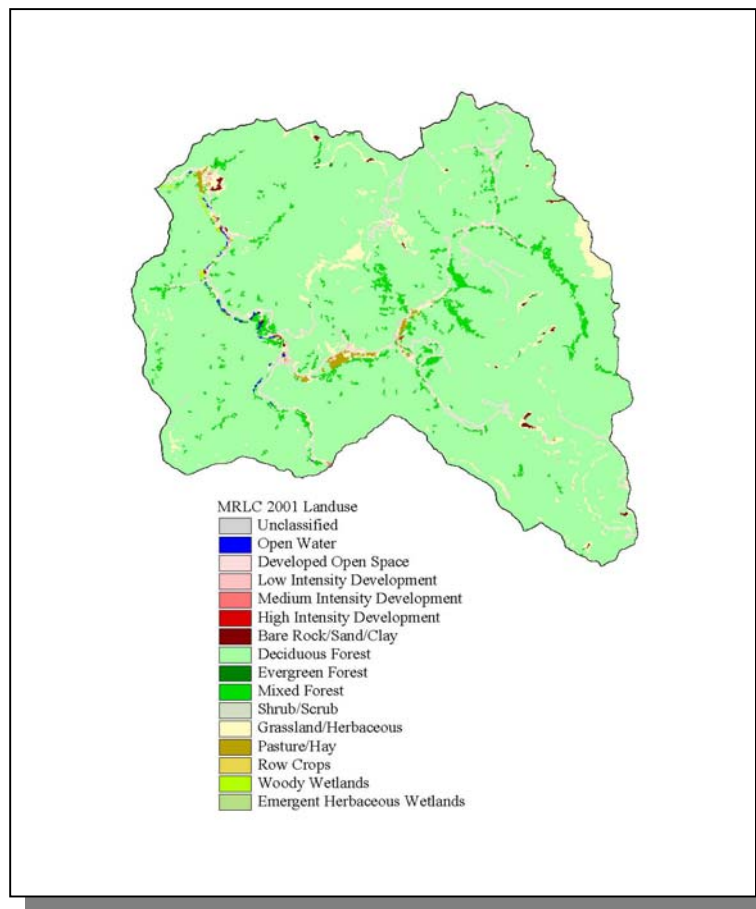


Figure 4-13. Illustration of Land Use Distribution in Subwatershed 051301040102.

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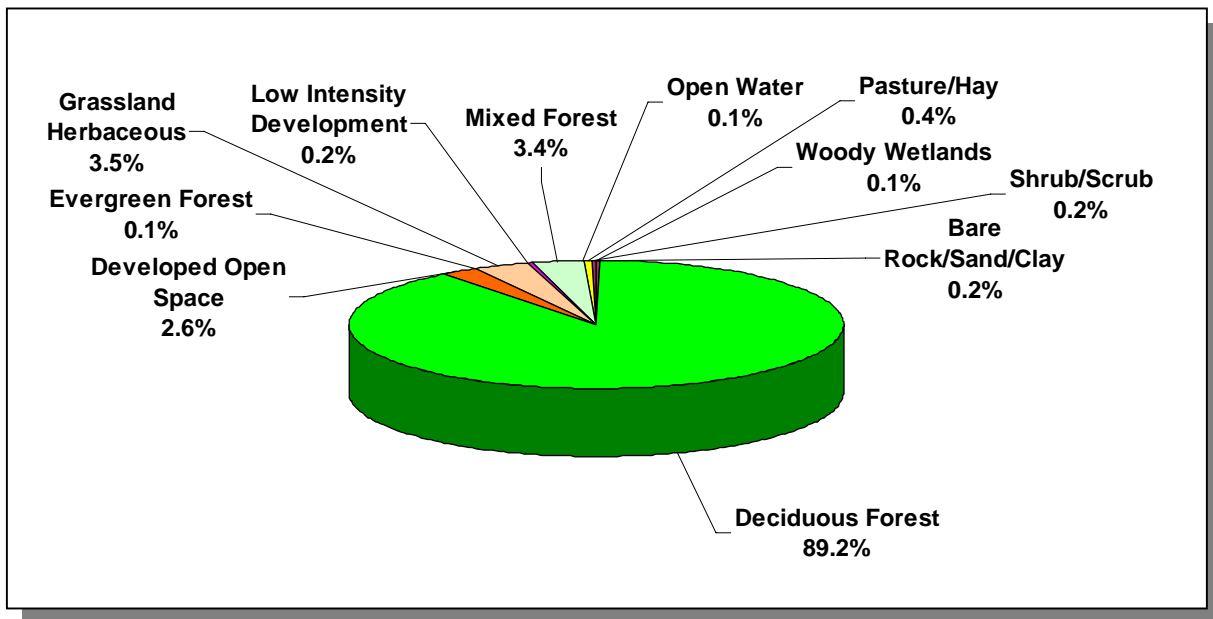


Figure 4-14. Land Use Distribution in Subwatershed 051301040102. More information is provided in Appendix IV.

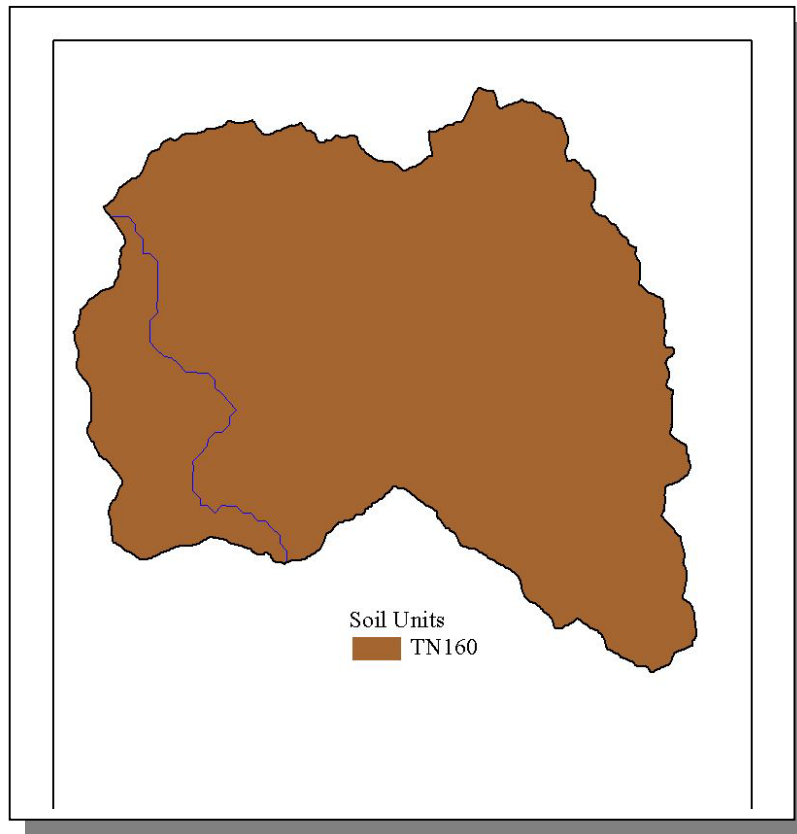


Figure 4-15. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040102.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-8. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040102. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Anderson	68,250	71,498	71,330	0.27	184	193	193	4.9
Campbell	35,079	37,878	39,854	8.50	2,981	3,219	3,386	13.6
Scott	18,358	19,816	21,127	0.62	114	123	131	14.9
Total	121,687	129,192	132,311		3,279	3,535	3,710	13.1

Table 4-9. Population Estimates in Subwatershed 051301040102.

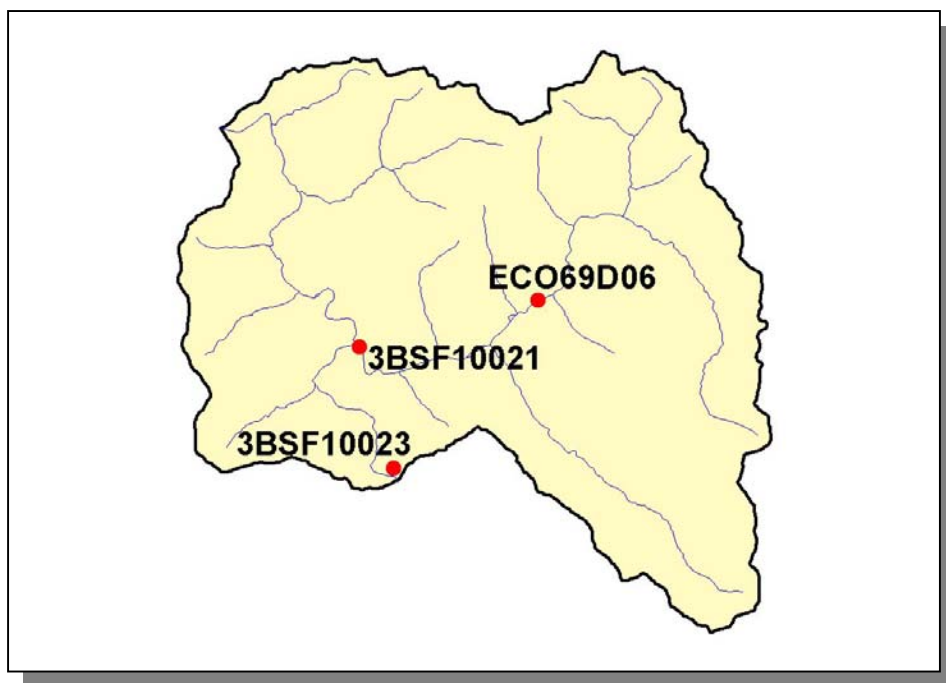


Figure 4-16. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040102. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.ii.a. Point Source Contributions.

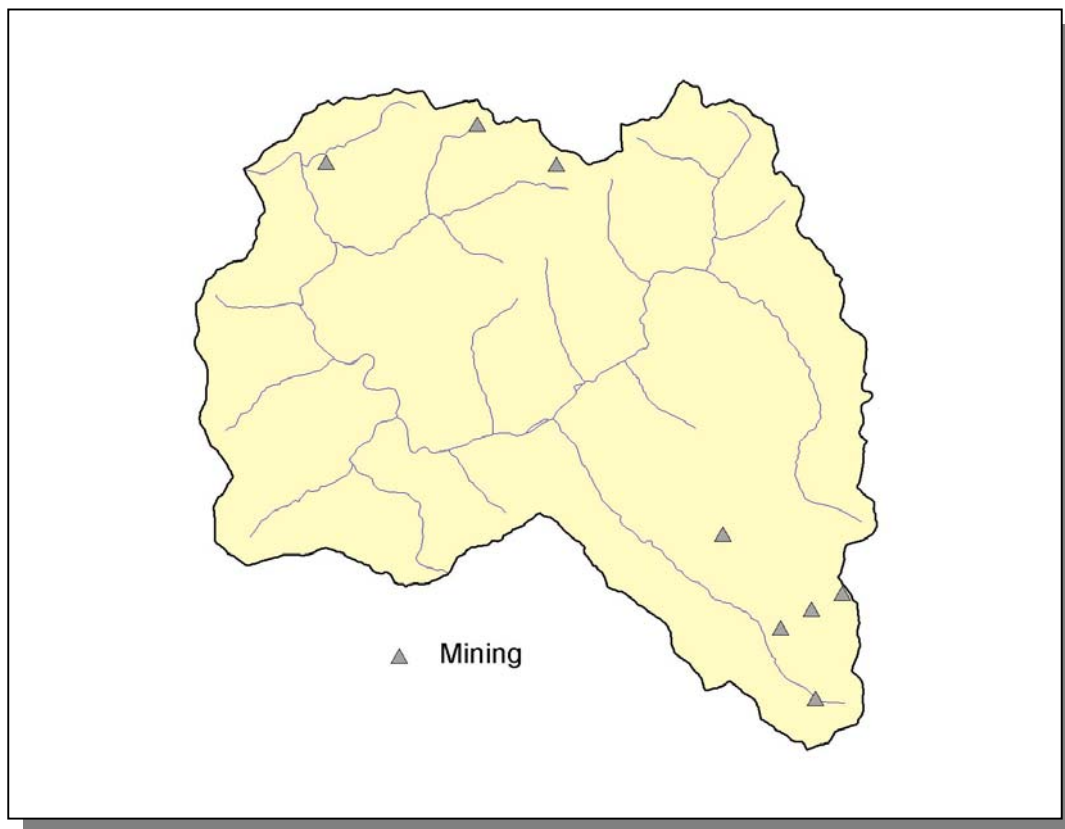


Figure 4-17. Location of Permits Issued in Subwatershed 051301040102. More information, including the names of facilities, is provided in Appendix IV.

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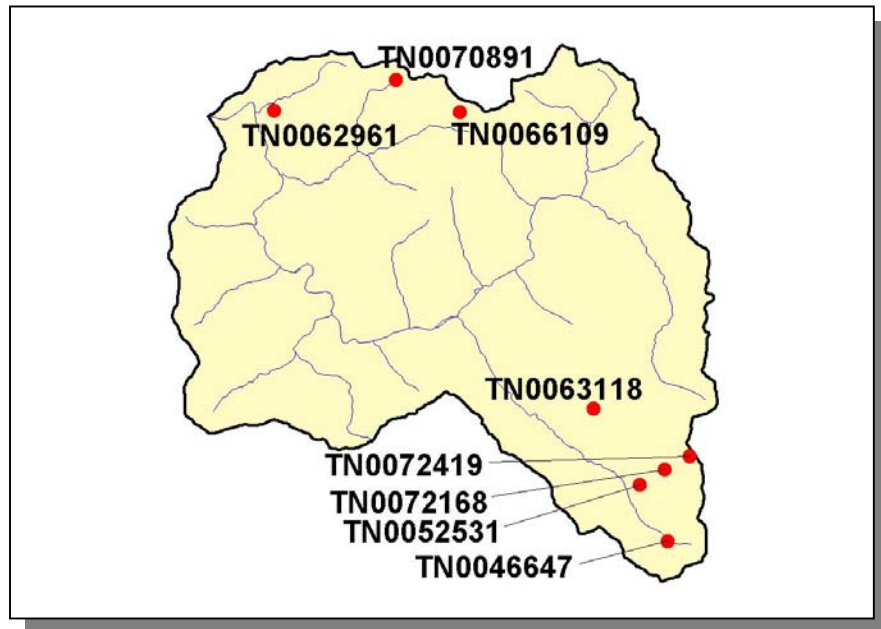


Figure 4-18. Location of Active Mining Sites in Subwatershed 051301040102. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS			
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)
69	131	<5	2,304

Table 4-10. Summary of Livestock Count Estimates in Subwatershed 051301040102. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Anderson	4,449	9,458	335		769		135
Campbell	4,083	7,684	66		8	14	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-11. Summary of Livestock Count Estimates in Anderson, Campbell, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Anderson	124.0	124.0	2.6	6.2
Campbell	250.3	250.2	2.6	10.6
Scott	300.3	300.3	5.5	21.4

Table 4-12. Forest Acreage and Annual Removal Rates (1987-1994) in Anderson, Campbell, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.63
Grass (Hayland)	1.76
Legumes, Grass (Hayland)	0.50
Legumes (Hayland)	1.07
Grass, Forbs, Legumes (Mixed Pasture)	2.56
Tobacco (Row Crops)	14.82
Other Vegetable and Truck Crops	3.52
Non-Agricultural Land Use	0
Other Land in Farms	0.23
Farmsteads and Ranch Headquarters	0.09

Table 4-13. Annual Estimated Total Soil Loss in Subwatershed 051301040102.

4.2.A.iii. 051301040103 (Smokey Creek).

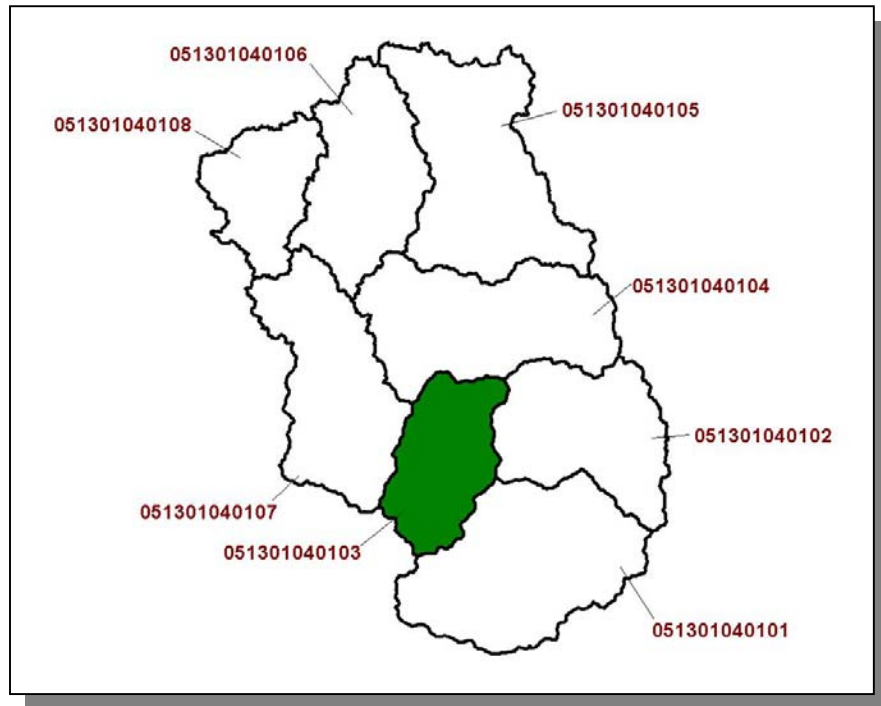


Figure 4-19. Location of Subwatershed 051301040103. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

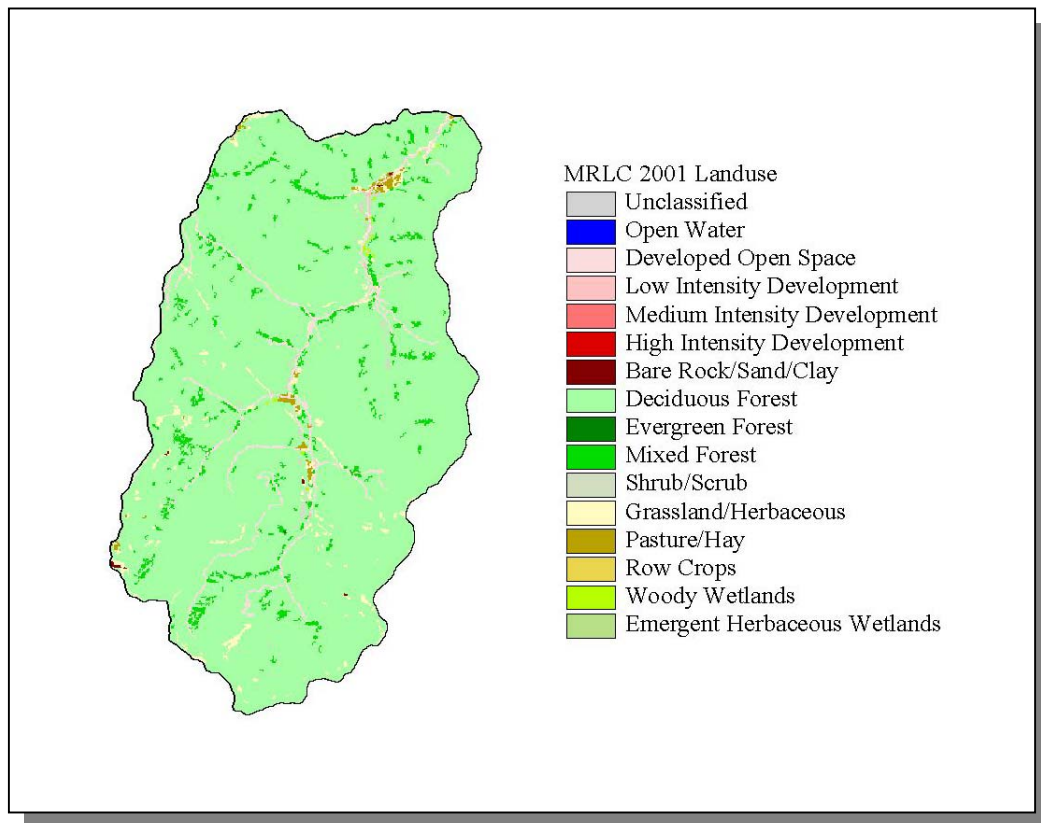


Figure 4-20. Illustration of Land Use Distribution in Subwatershed 051301040103.

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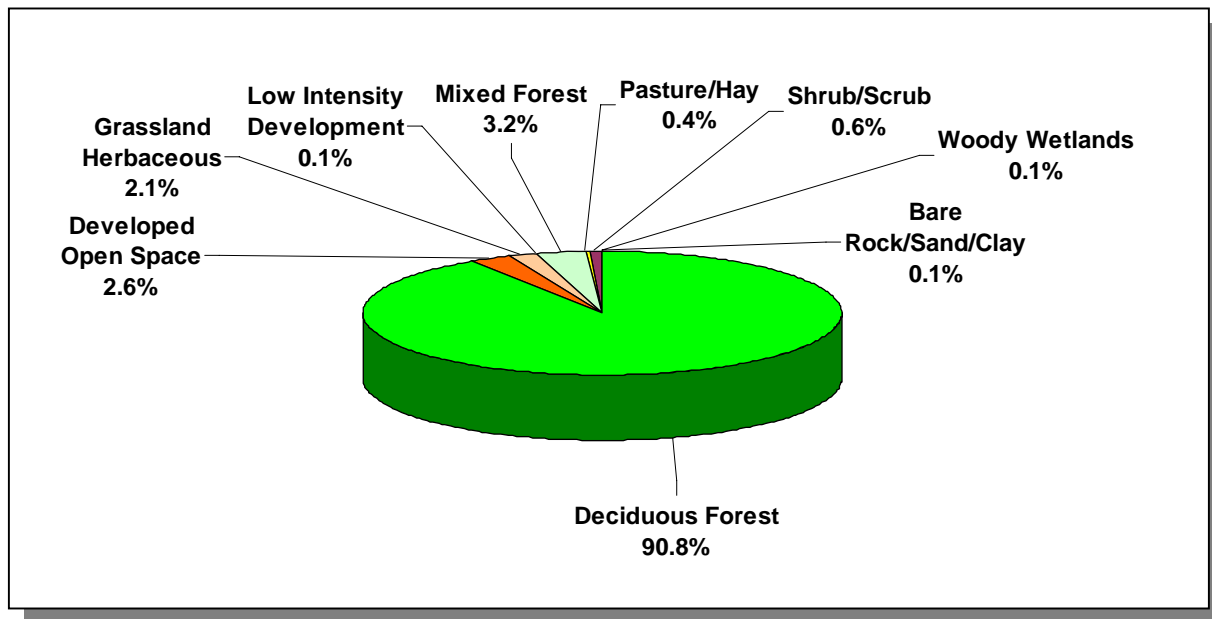


Figure 4-21. Land Use Distribution in Subwatershed 051301040103. More information is provided in Appendix IV.

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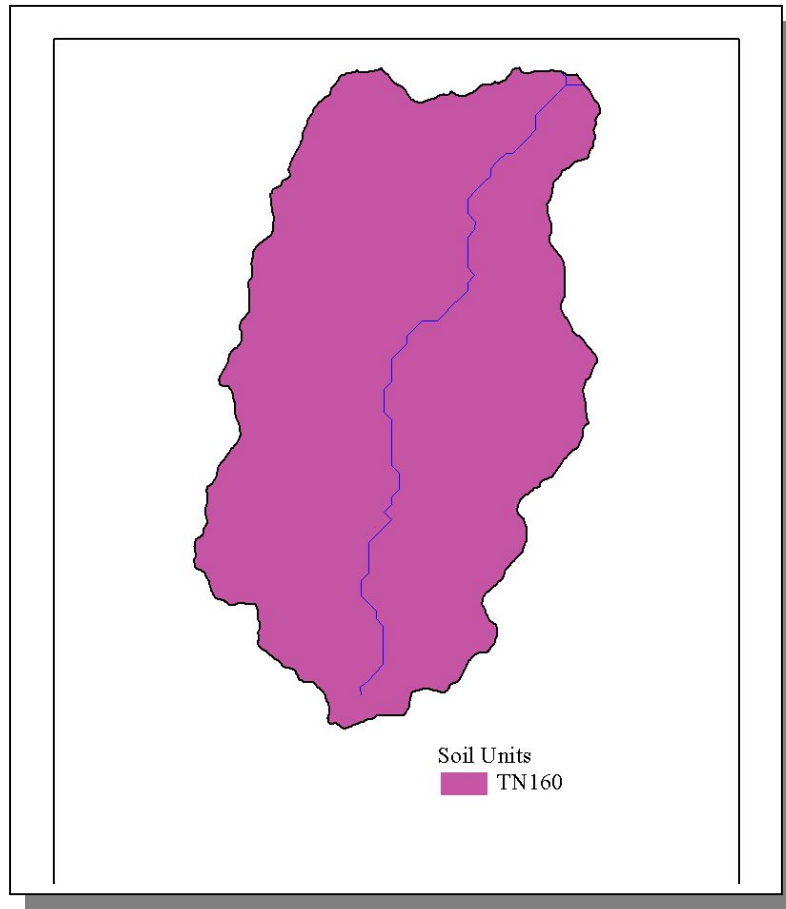


Figure 4-22. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040103.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-14. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040103. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Anderson	68,250	71,498	71,330	0.36	247	259	258	4.5
Campbell	35,079	37,878	39,854	0.01	4	4	5	25.0
Morgan	17,300	18,521	19,757	0.09	16	17	18	12.5
Scott	18,358	19,816	21,127	5.86	1,076	1,161	1,238	15.1
Total	138,987	147,713	152,068		1,343	1,441	1,519	13.1

Table 4-15. Population Estimates in Subwatershed 051301040103.

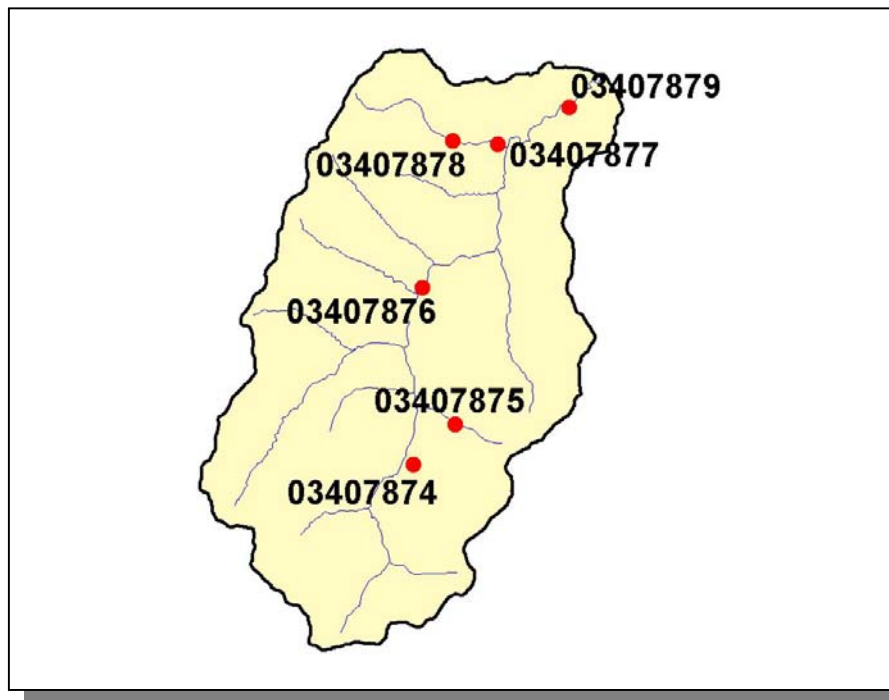


Figure 4-23. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040103. More information is provided in Appendix IV.

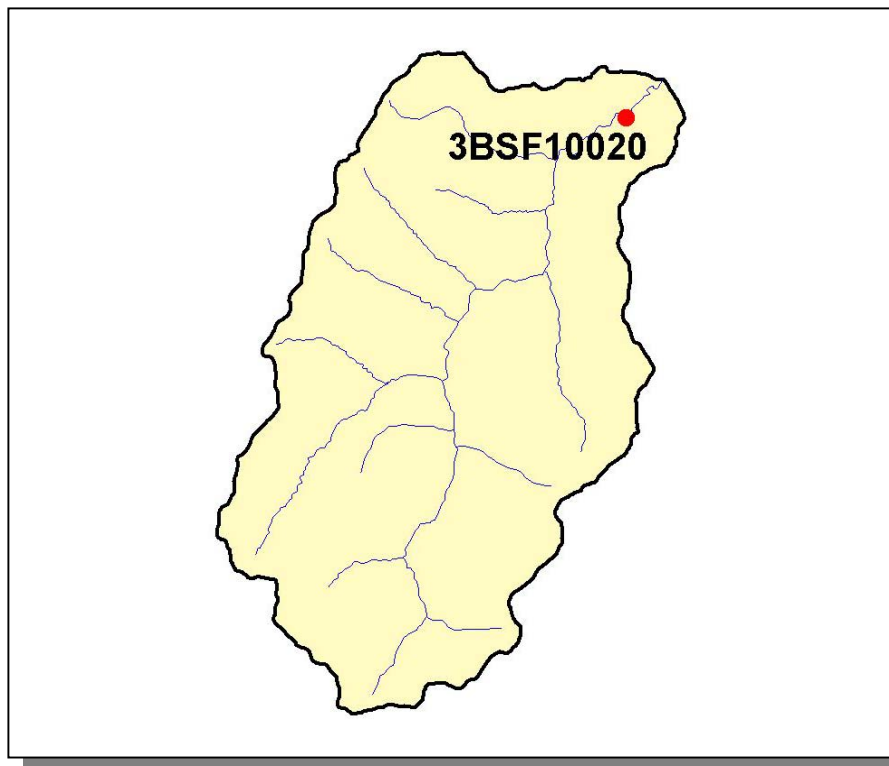


Figure 4-24. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040103. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.iii.a. Point Source Contributions.

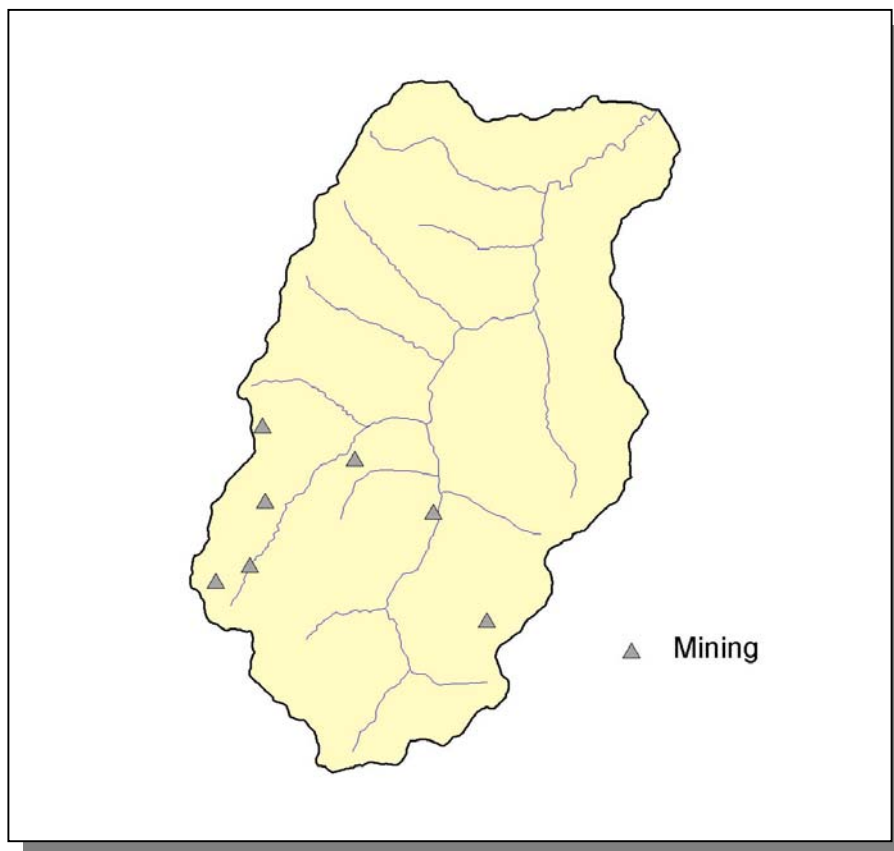


Figure 4-25. Location of Permits Issued in Subwatershed 051301040103. More information, including the names of facilities, is provided in Appendix IV.

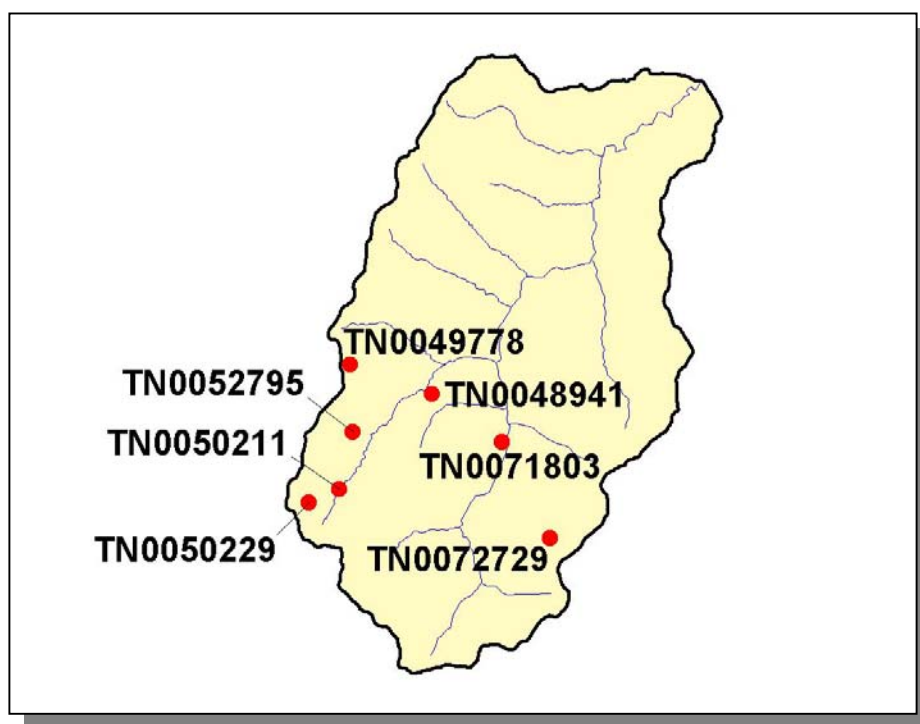


Figure 4-26. Location of Active Mining Sites in Subwatershed 051301040103. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.iii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Sheep
26	53	<5	22,092	<5

Table 4-16. Summary of Livestock Count Estimates in Subwatershed 051301040103. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Anderson	4,449	9,458	335		769		135
Campbell	4,083	7,684	66		8	14	
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-17. Summary of Livestock Count Estimates in Anderson, Campbell, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
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Anderson	124.0	124.0	2.6	6.2
Campbell	250.3	250.2	2.6	10.6
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-18. Forest Acreage and Annual Removal Rates (1987-1994) in Anderson, Campbell, Morgan, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.37
Grass (Hayland)	0.79
Legumes (Hayland)	1.07
Legumes, Grass (Hayland)	2.41
Grass, Forbs, Legumes (Mixed Pasture)	0.62
Corn (Row Crops)	7.18
Tobacco (Row Crops)	2.23
Other Vegetable and Truck Crops	11.67
Other Land in Farms	0.23
Farmsteads and Ranch Headquarters	0.12

Table 4-19. Annual Estimated Total Soil Loss in Subwatershed 051301040103.

4.2.A.iv. 051301040104 (New River).

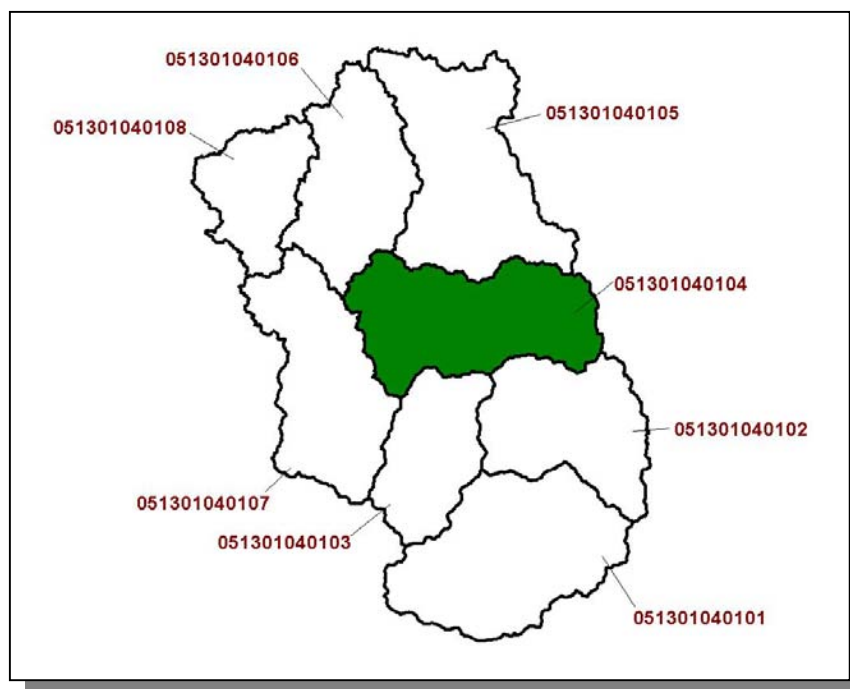


Figure 4-27. Location of Subwatershed 051301040104. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

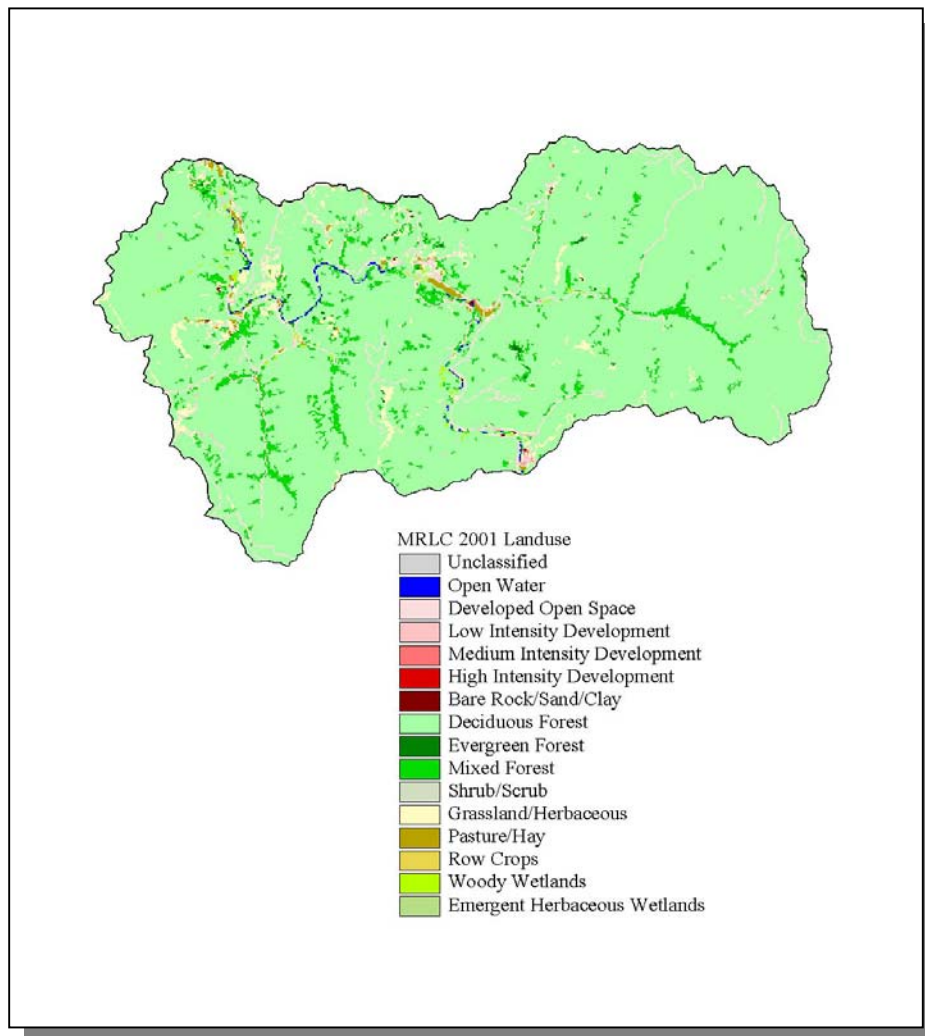


Figure 4-28. Illustration of Land Use Distribution in Subwatershed 051301040104.

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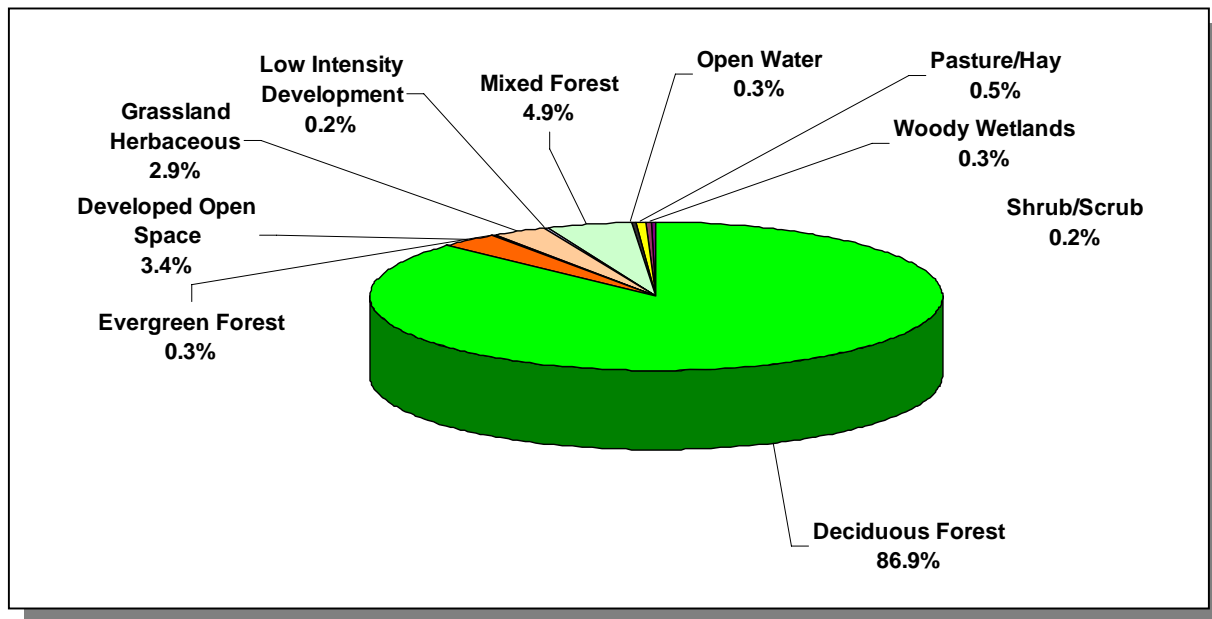


Figure 4-29. Land Use Distribution in Subwatershed 051301040104. More information is provided in Appendix IV.

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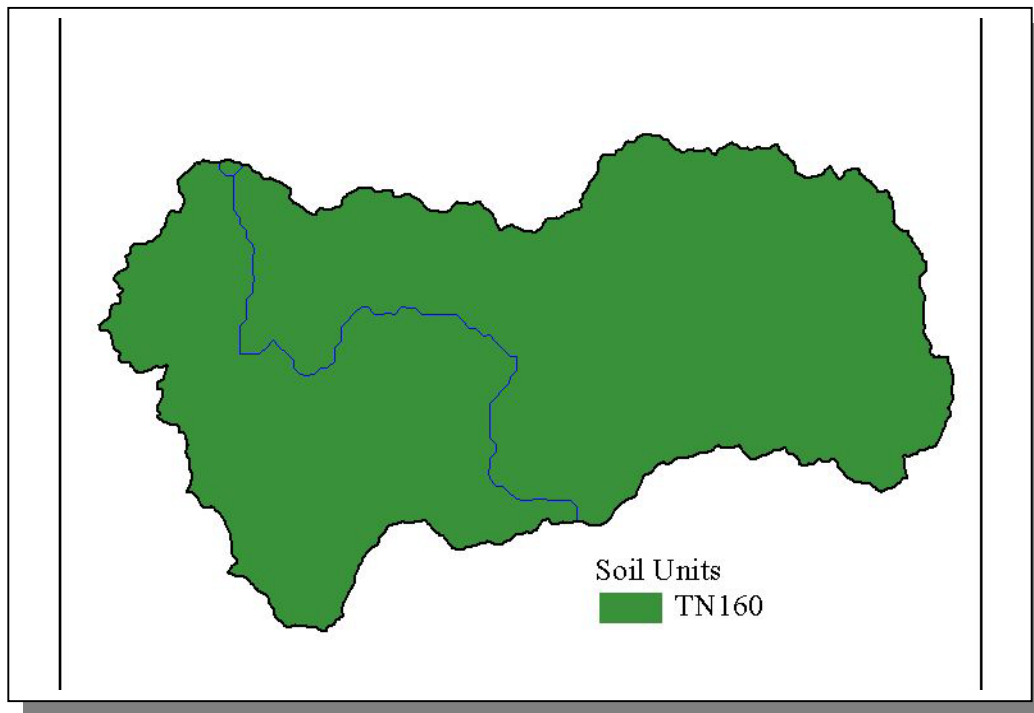


Figure 4-30. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040104.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-20. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040104. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Campbell	35,079	37,878	39,854	2.88	1,011	1,091	1,148	13.6
Scott	18,358	19,816	21,127	8.24	1,512	1,632	1,740	15.1
Total	53,437	57,694	60,981		2,523	2,723	2,888	14.5

Table 4-21. Population Estimates in Subwatershed 051301040104.

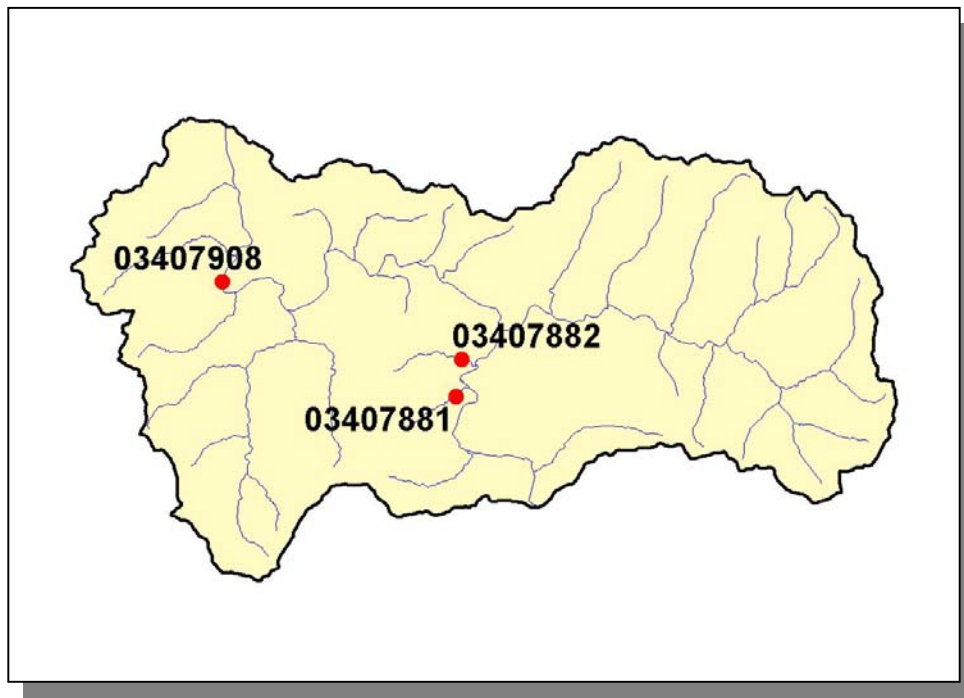


Figure 4-31. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040104. More information is provided in Appendix IV.

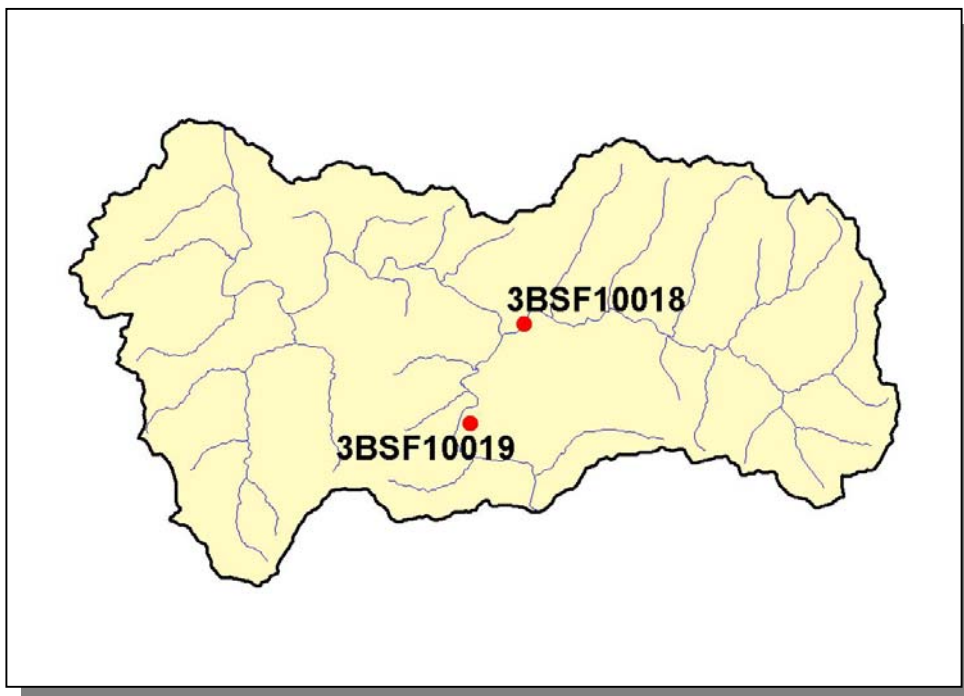


Figure 4-32. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040104. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.iv.a. Point Source Contributions.

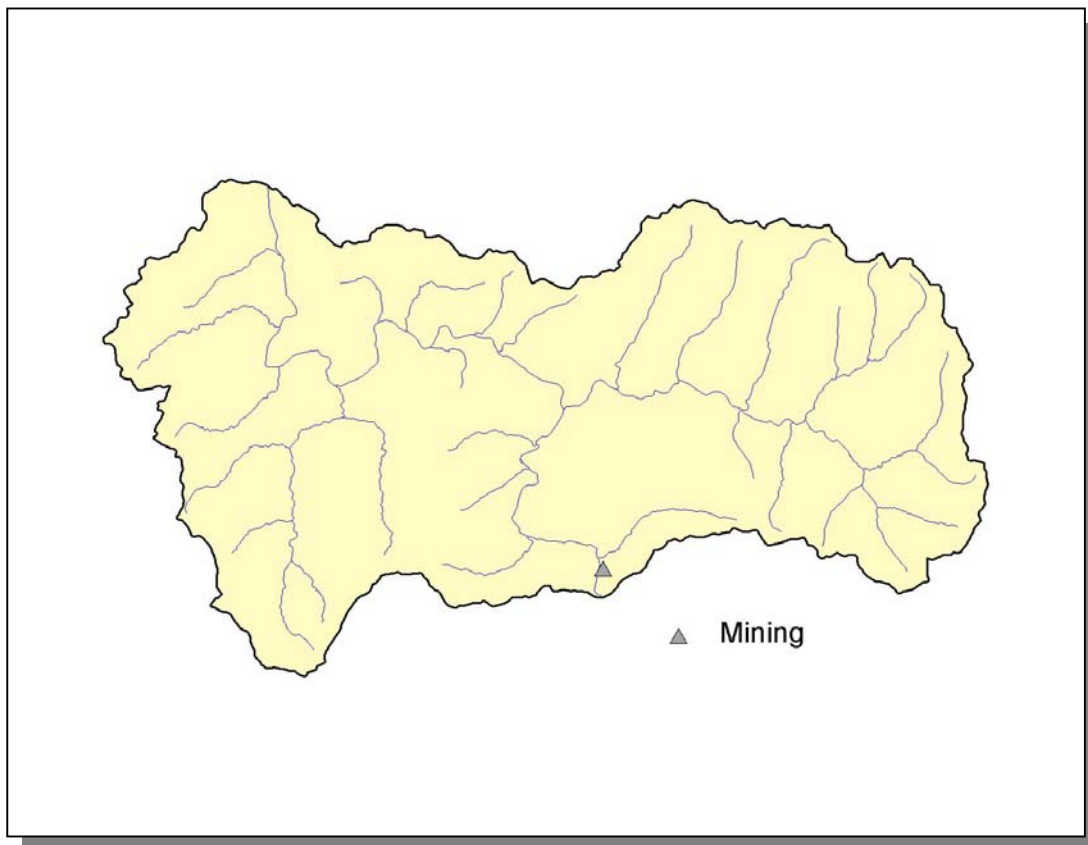


Figure 4-33. Location of Permits Issued in Subwatershed 051301040104. More information, including the names of facilities, is provided in Appendix IV.

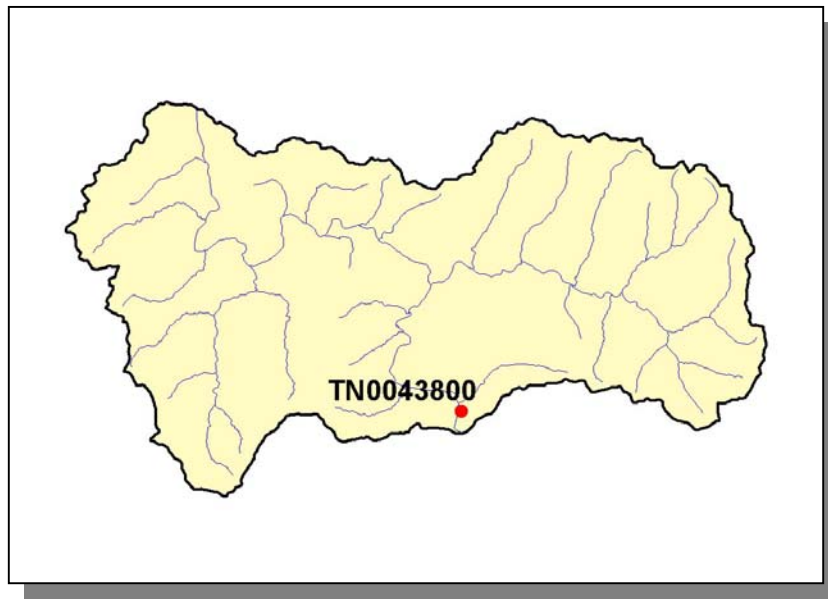


Figure 4-34. Location of Active Mining Sites in Subwatershed 051301040104. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.iv.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Sheep
53	107	<5	38,986	<5

Table 4-22. Summary of Livestock Count Estimates in Subwatershed 051301040104.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Campbell	4,083	7,684	66		8	14	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-23. Summary of Livestock Count Estimates in Campbell and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Campbell	250.3	250.2	2.6	10.6
Scott	300.3	300.3	5.5	21.4

Table 4-24. Forest Acreage and Annual Removal Rates (1987-1994) in Campbell and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	1.78
Legumes, Grass (Hayland)	0.44
Grass, Forbs, Legumes (Mixed Pasture)	1.1
Tobacco (Row Crops)	15.11
Other Vegetable Truck Crops	3.33
Farmsteads and Ranch Headquarters	0.08

Table 4-25. Annual Estimated Total Soil Loss in Subwatershed 051301040104.

4.2.A.v. 051301040105 (Buffalo Creek).

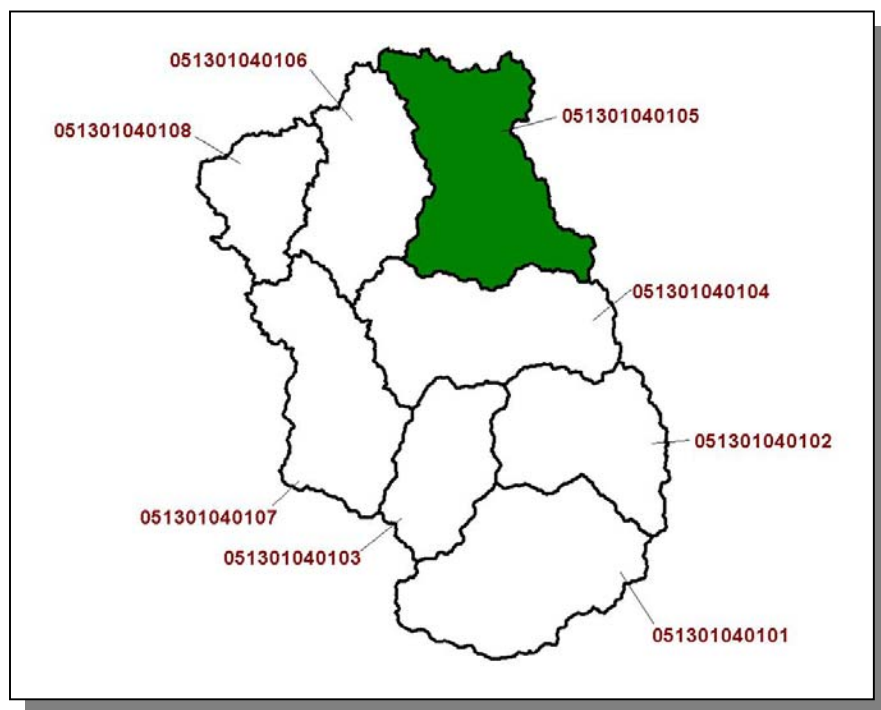


Figure 4-35. Location of Subwatershed 051301040105. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

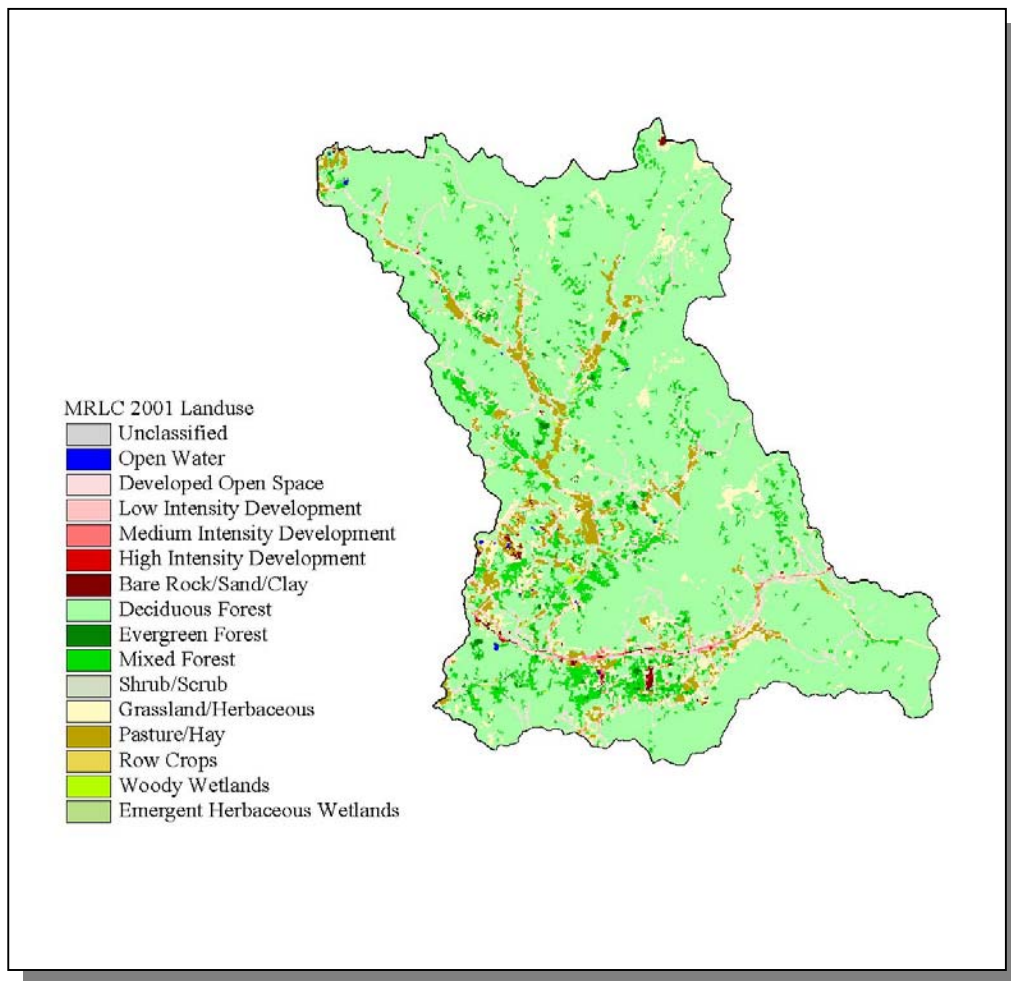


Figure 4-36. Illustration of Land Use Distribution in Subwatershed 051301040105.

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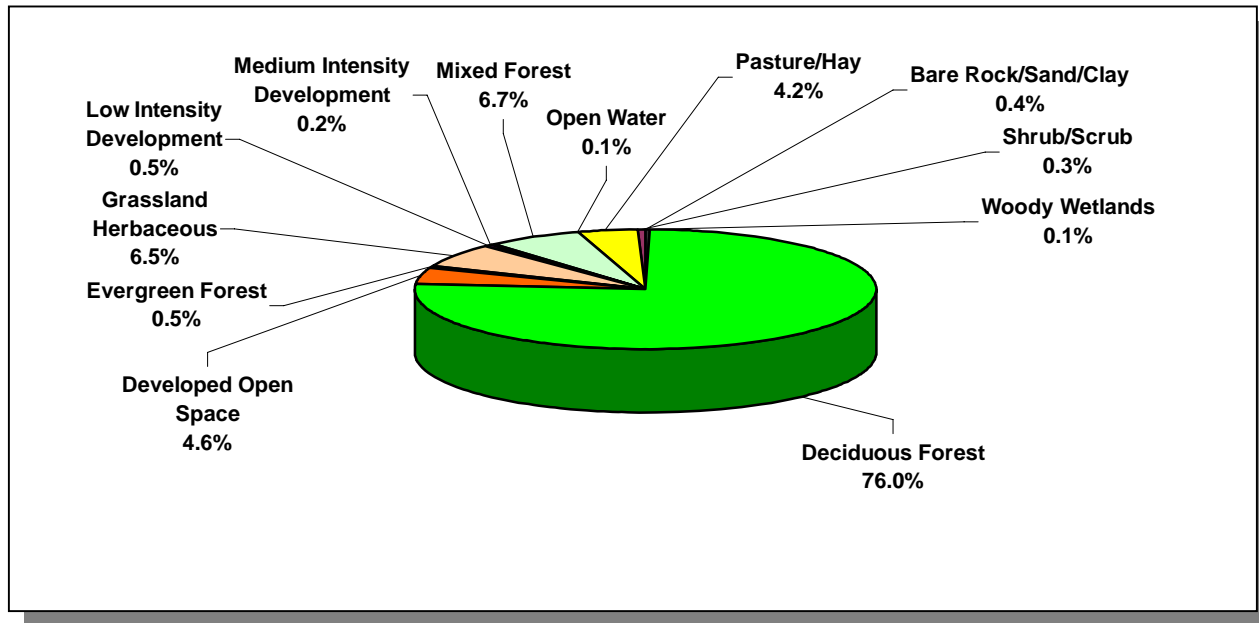


Figure 4-37. Land Use Distribution in Subwatershed 051301040102. More information is provided in Appendix IV.

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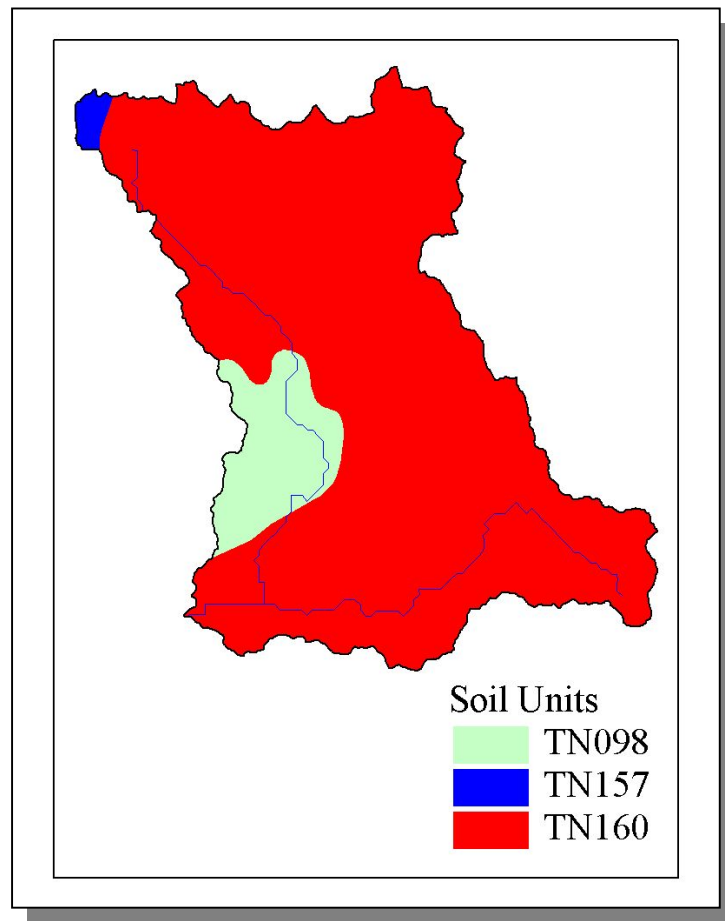


Figure 4-38. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040105.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN157	0.00	B	2.38	4.62	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-26. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040105. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Campbell	35,079	37,878	39,854	1.1	386	417	439	13.7
Scott	18,358	19,816	21,127	10.97	2,014	2,174	2,318	15.1
Total	53,437	57,694	60,981		2,400	2,591	2,757	14.9

Table 4-27. Population Estimates in Subwatershed 051301040105.

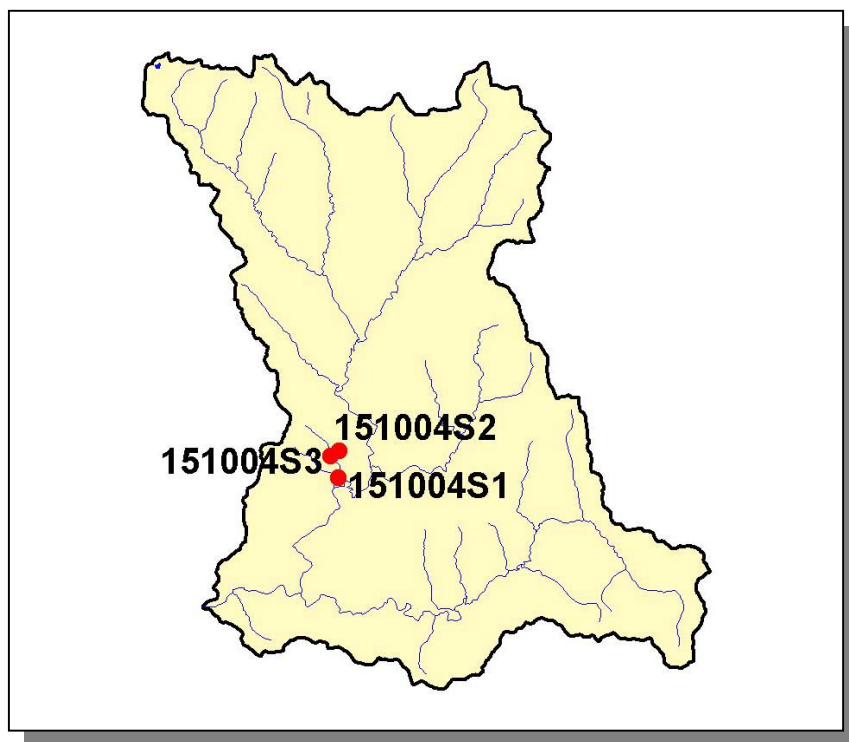


Figure 4-39. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040105. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.v.a. Point Source Contributions.

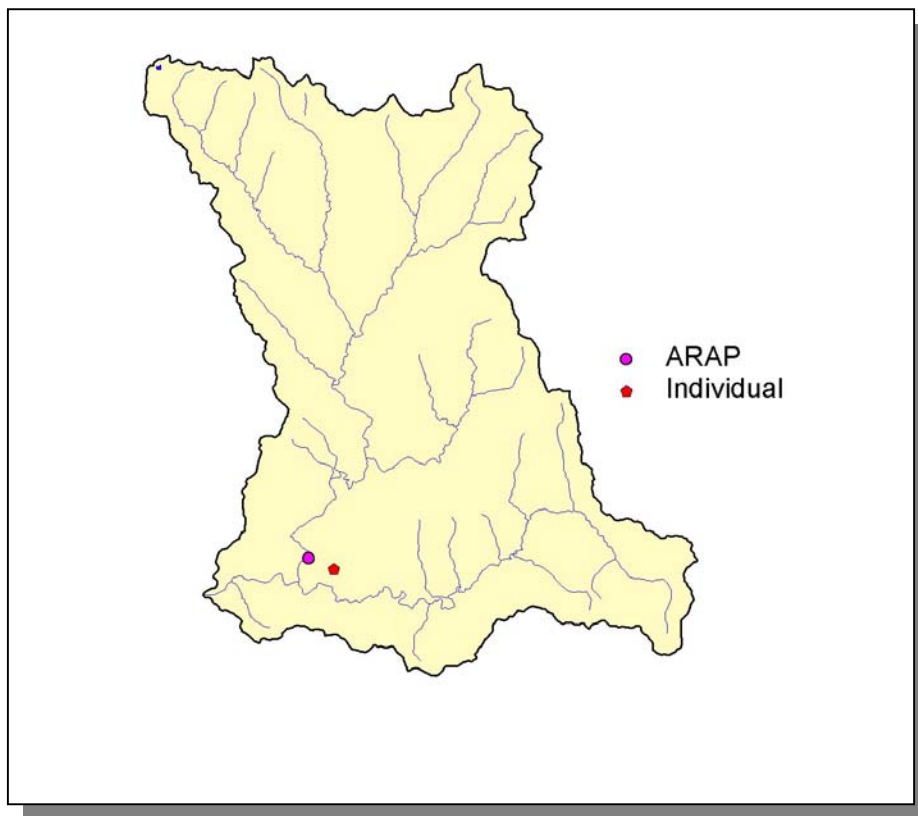


Figure 4-40. Location of Permits Issued in Subwatershed 051301040105. More information, including the names of facilities, is provided in Appendix IV.

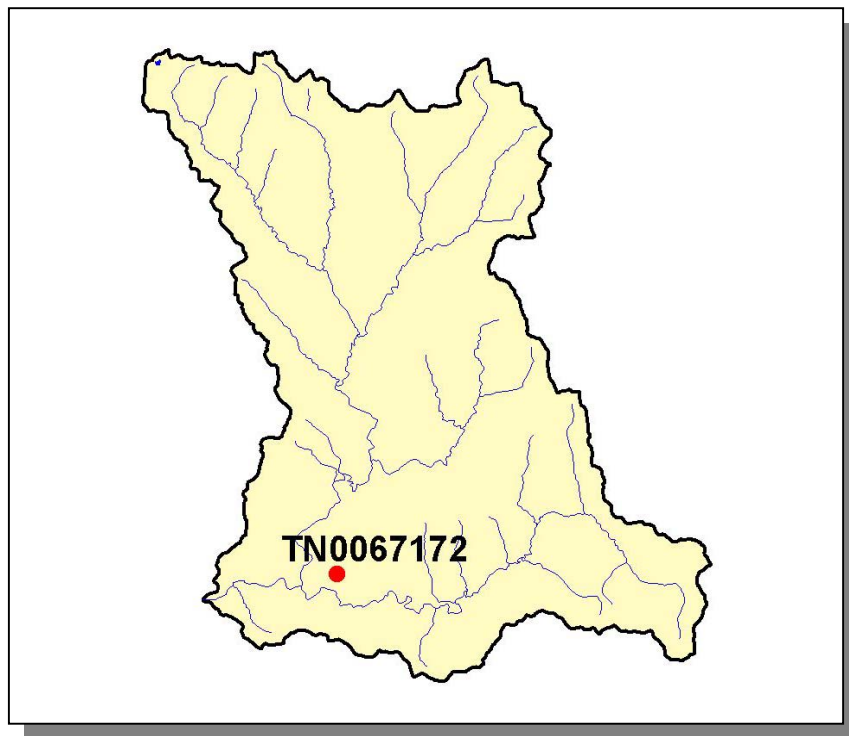


Figure 4-41. Location of Active NPDES Sites in Subwatershed 051301040105. More information, including the names of facilities, is provided in Appendix IV.

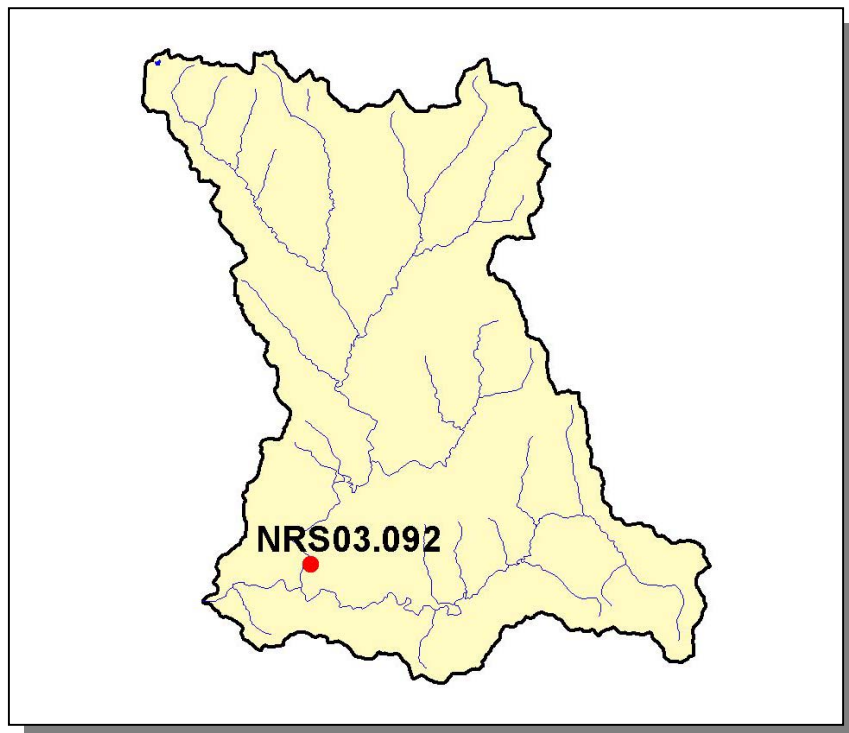


Figure 4-42. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301040105. More information is provided in Appendix IV.

4.2.v.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051301040105:

- TN0067172 (Fairview Elementary School) discharges to an unnamed tributary @ RM 0.5 to Straight Fork @ RM 2.0

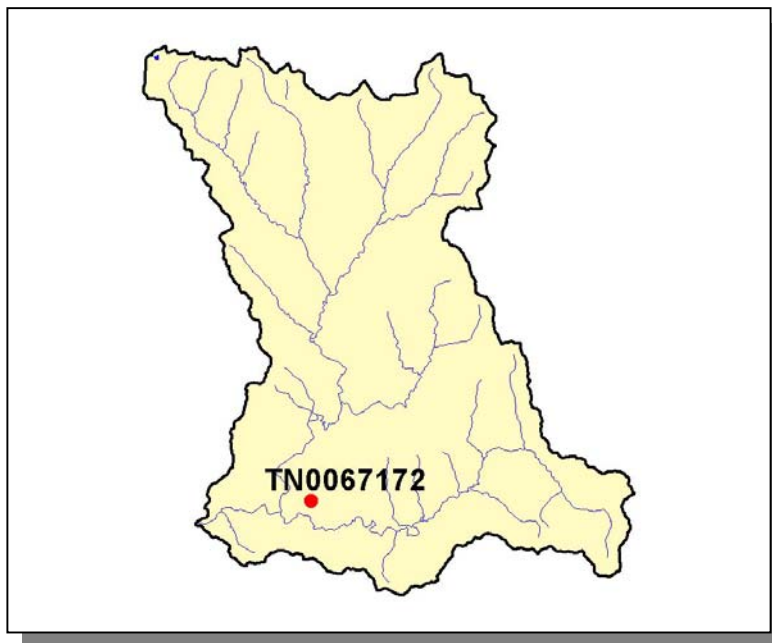


Figure 4-43. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051301040105. More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0067172			0		

Table 4-28. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040105. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	CBOD ₅	<i>E.coli</i>	FECAL COLIFORM	NH ₃	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0067172	X	X	X	X	X	X	X	X	X

Table 4-29. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040105. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

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4.2.A.v.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
282	576	27	<5	251,615	<5	9

Table 4-30. Summary of Livestock Count Estimates in Subwatershed 051301040105.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Campbell	4,083	7,684	66		8	14	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-31. Summary of Livestock Count Estimates in Campbell and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Campbell	250.3	250.2	2.6	10.6
Scott	300.3	300.3	5.5	21.4

Table 4-32. Forest Acreage and Annual Removal Rates (1987-1994) in Campbell and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.44
Grass (Hayland)	1.78
Legumes, Grass (Hayland)	0.44
Grass, Forbs, Legumes (Mixed Pasture)	0.76
Tobacco (Row Crops)	15.11
Other Vegetable and Truck Crop	3.33
Farmsteads and Ranch Headquarters	0.09

Table 4-33. Annual Estimated Total Soil Loss in Subwatershed 051301040105.

4.2.A.vi. 051301040106 (New River).

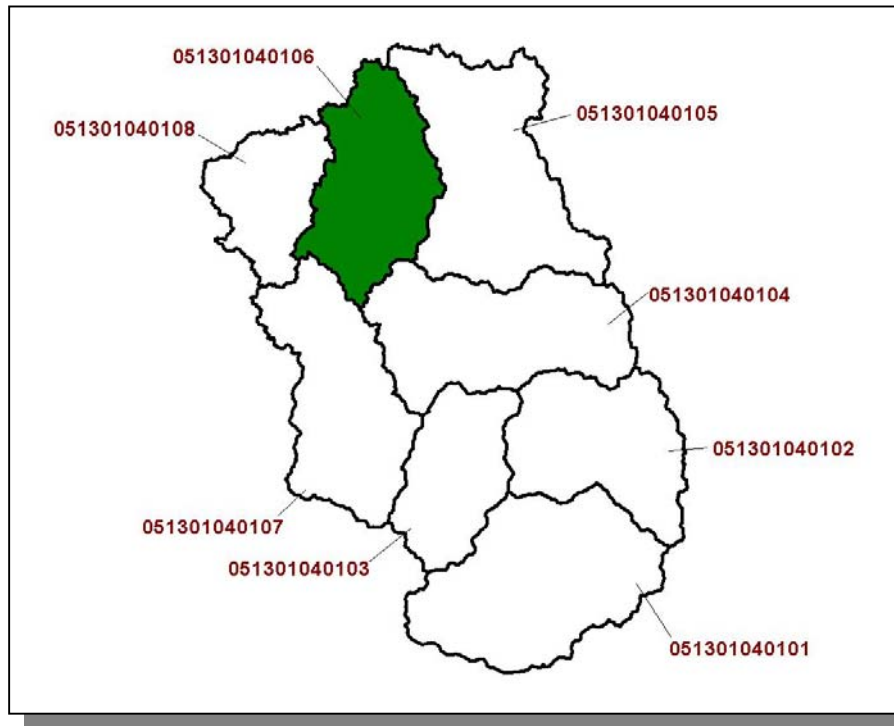


Figure 4-44. Location of Subwatershed 051301040106. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

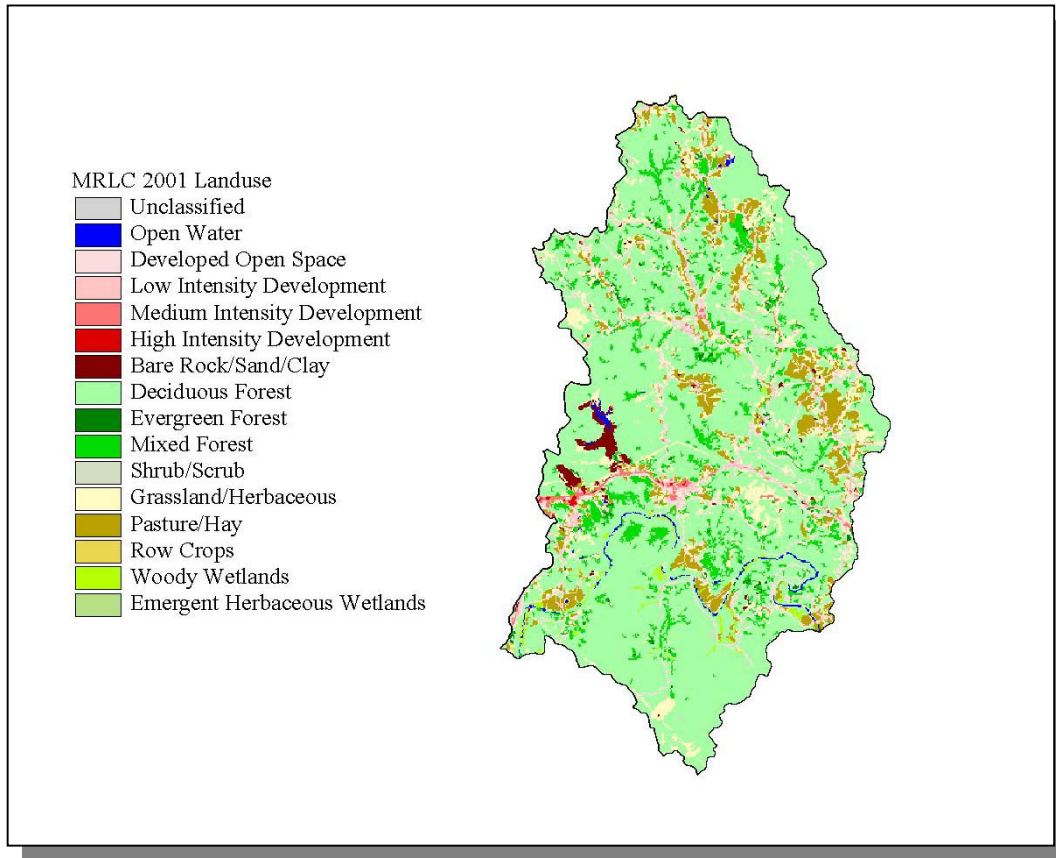


Figure 4-45. Illustration of Land Use Distribution in Subwatershed 051301040106.

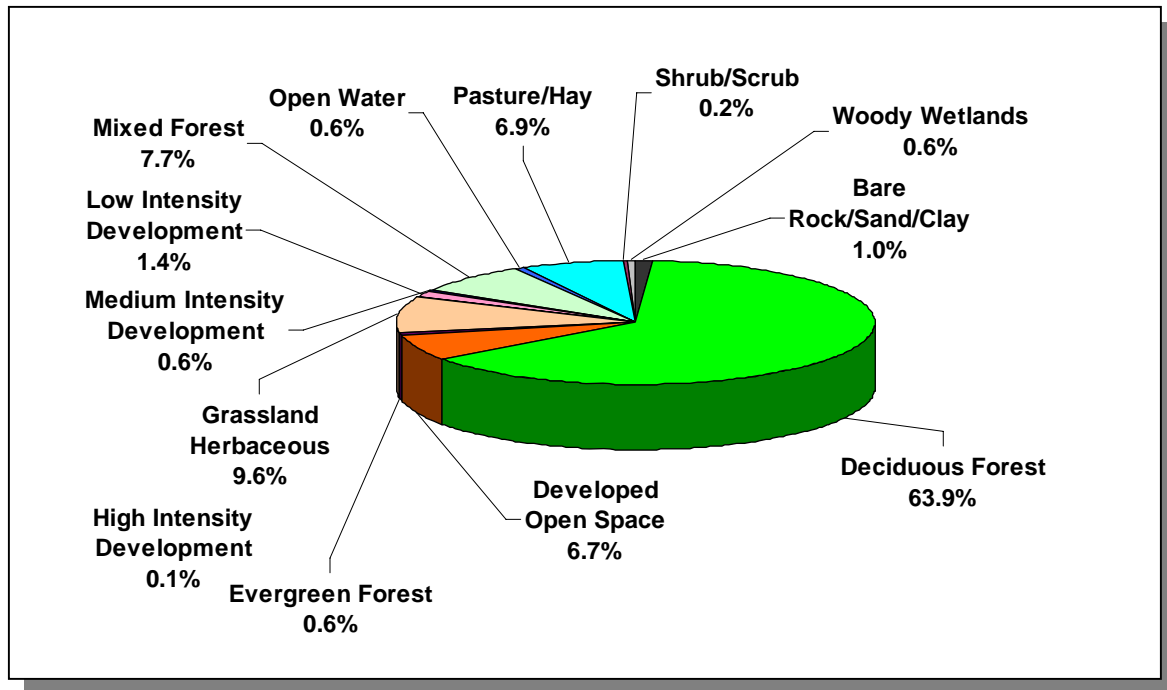


Figure 4-46. Land Use Distribution in Subwatershed 051301040106. More information is provided in Appendix IV.

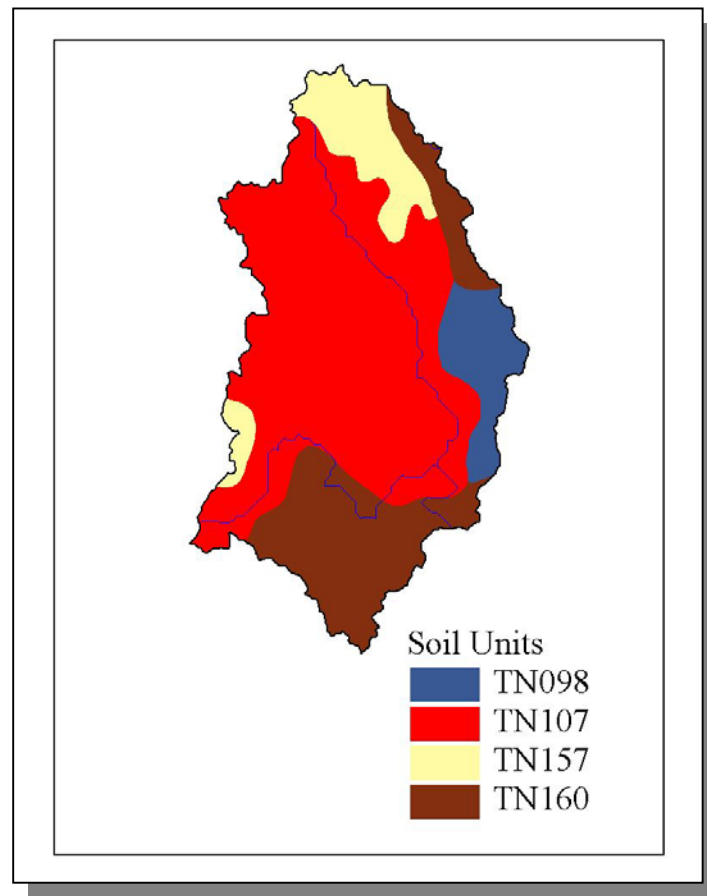


Figure 4-47. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040106.

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STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-34. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040106. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	8.37	1,536	1,658	1,768	15.1

Table 4-35. Population Estimates in Subwatershed 051301040106.

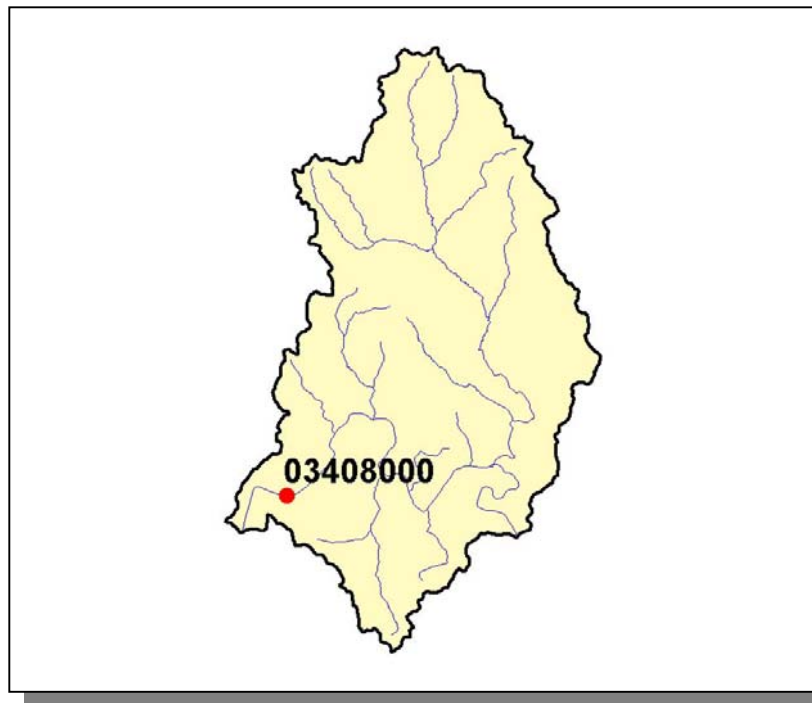


Figure 4-48. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040106. More information is provided in Appendix IV.

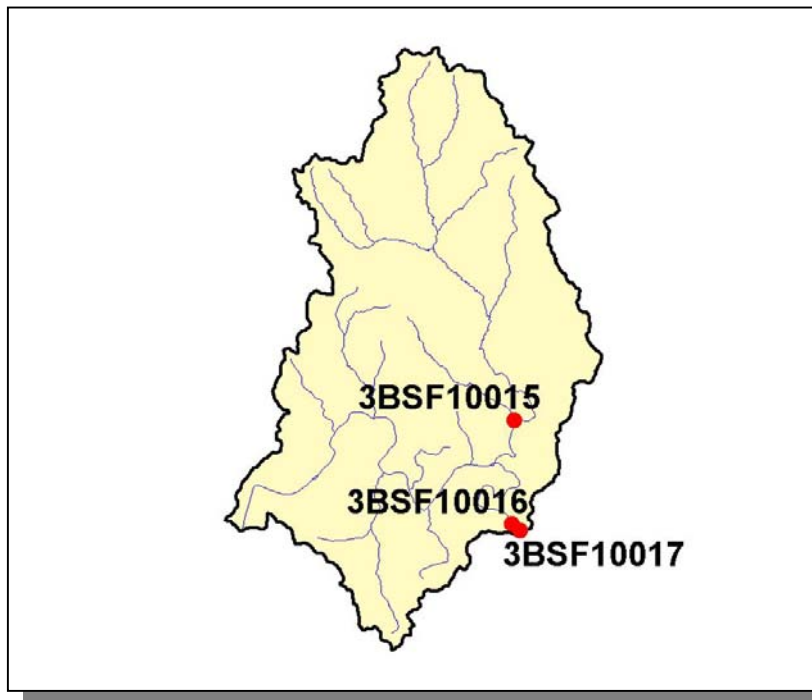


Figure 4-49. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040106. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.vi.a. Point Source Contributions.

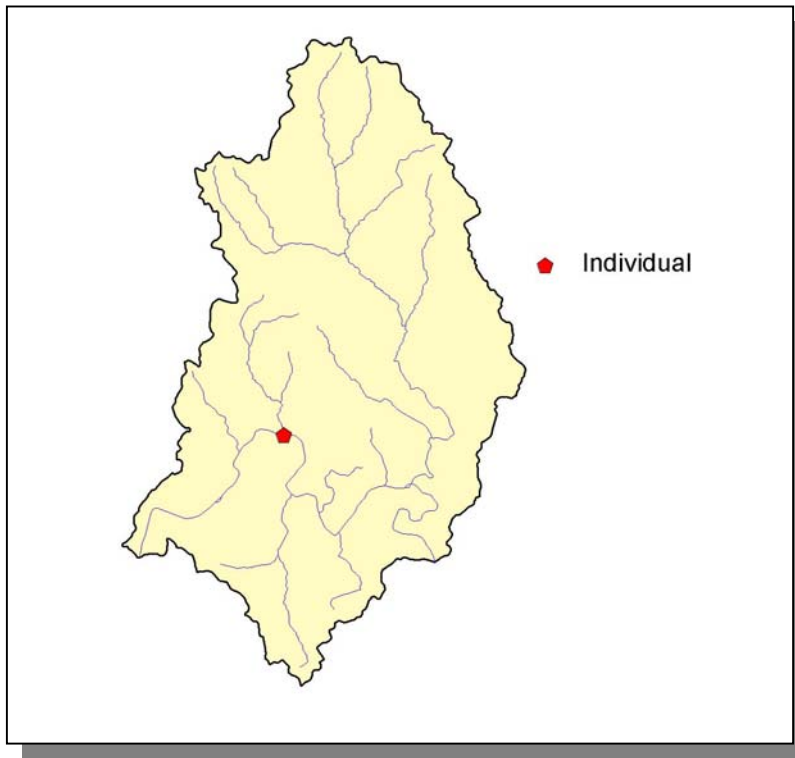


Figure 4-50. Location of Permits Issued in Subwatershed 051301040106. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-51. Location of Active NPDES Sites in Subwatershed 051301040106. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.vi.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
317	647	31	<5	289,541	<5	11

Table 4-36. Summary of Livestock Count Estimates in Subwatershed 051301040106. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-37. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-38. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-39. Annual Estimated Total Soil Loss in Subwatershed 051301040106.

4.2.A.vii. 051301040107 (Brimstone Creek).

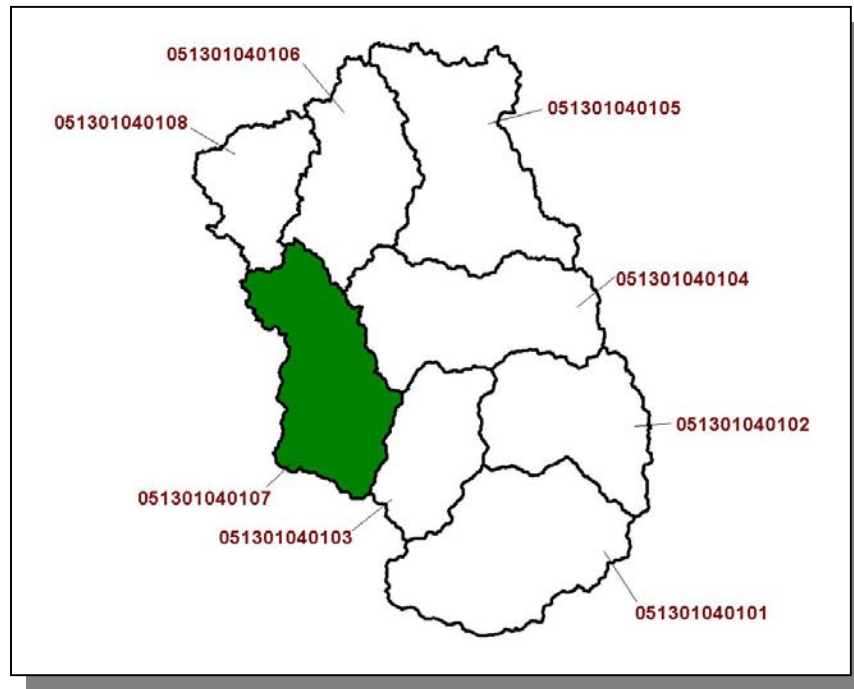


Figure 4-52. Location of Subwatershed 051301040107. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

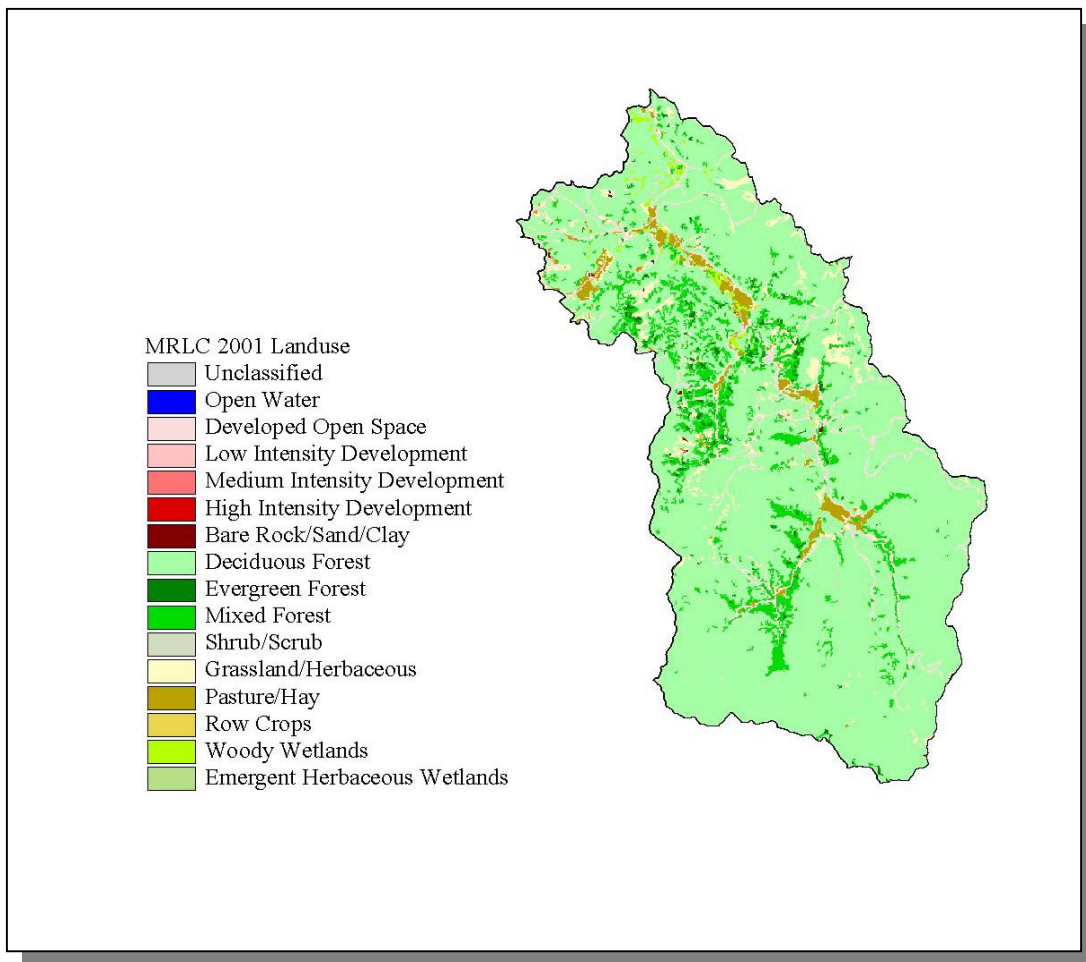


Figure 4-53. Illustration of Land Use Distribution in Subwatershed 051301040107.

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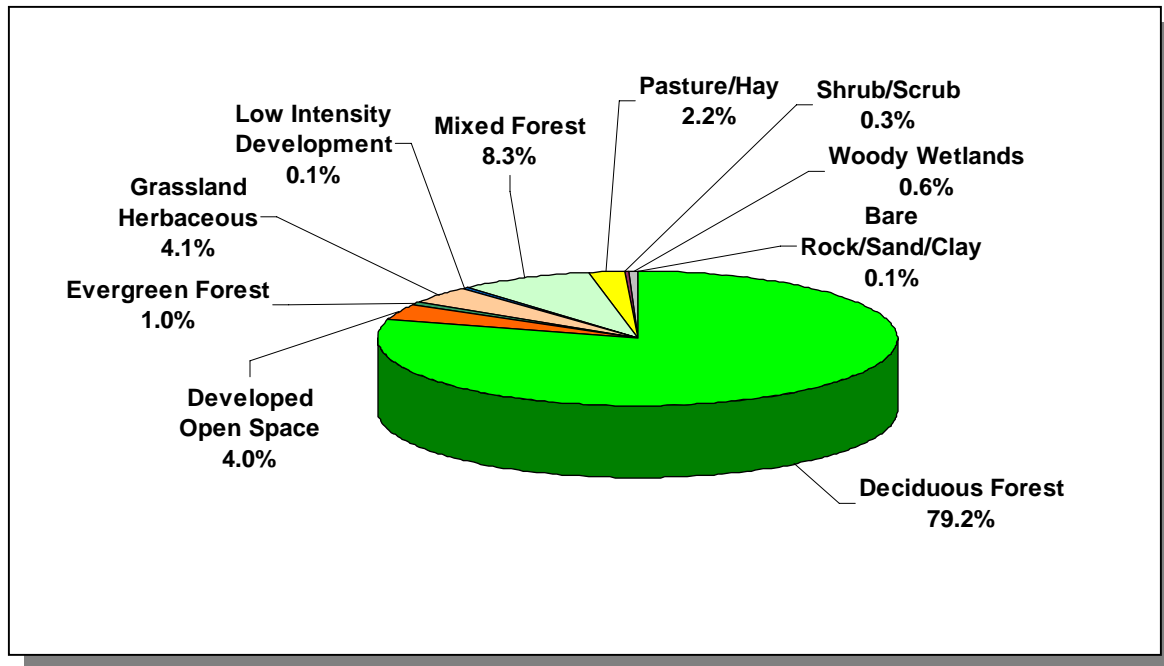


Figure 4-54. Land Use Distribution in Subwatershed 051301040107. More information is provided in Appendix IV.

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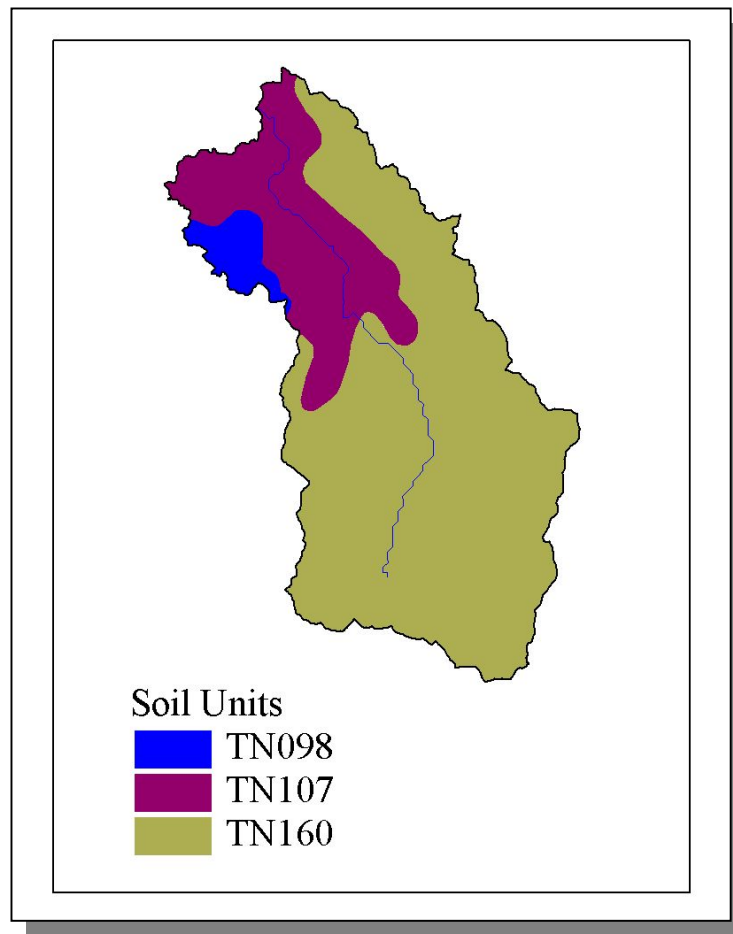


Figure 4-55. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040107.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-40. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040107. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Morgan	17,300	18,521	19,757	1.16	201	215	229	13.9
Scott	18,358	19,816	21,127	8.62	1,583	1,708	1,821	15.0
Total	35,658	38,337	40,884		1,784	1,923	2,050	14.9

Table 4-41. Population Estimates in Subwatershed 051301040107.

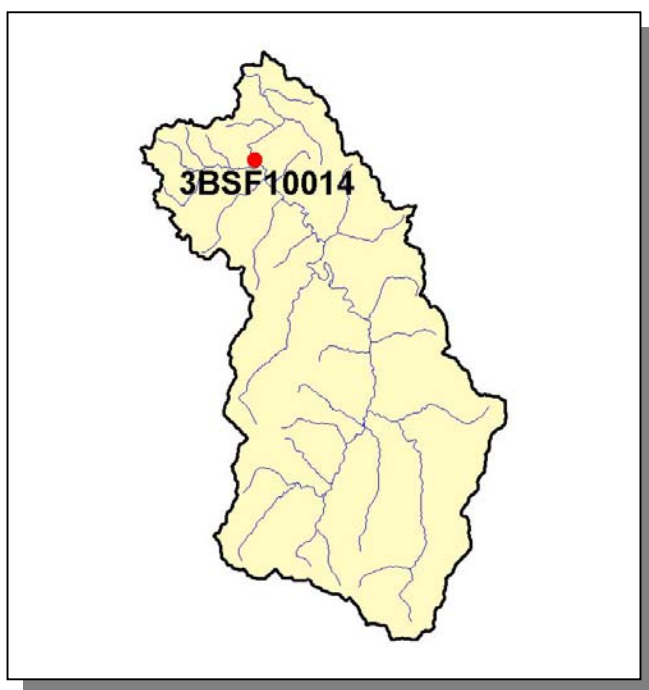


Figure 4-56. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040107. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.vii.a. Point Source Contributions.

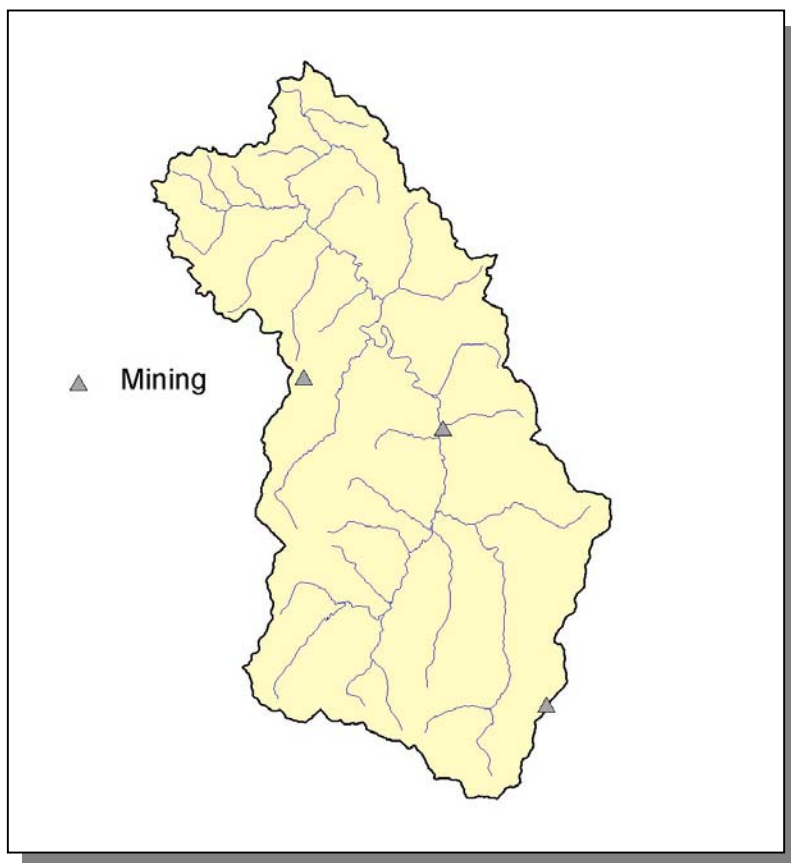


Figure 4-57. Location of Permits Issued in Subwatershed 051301040107. More information, including the names of facilities, is provided in Appendix IV.

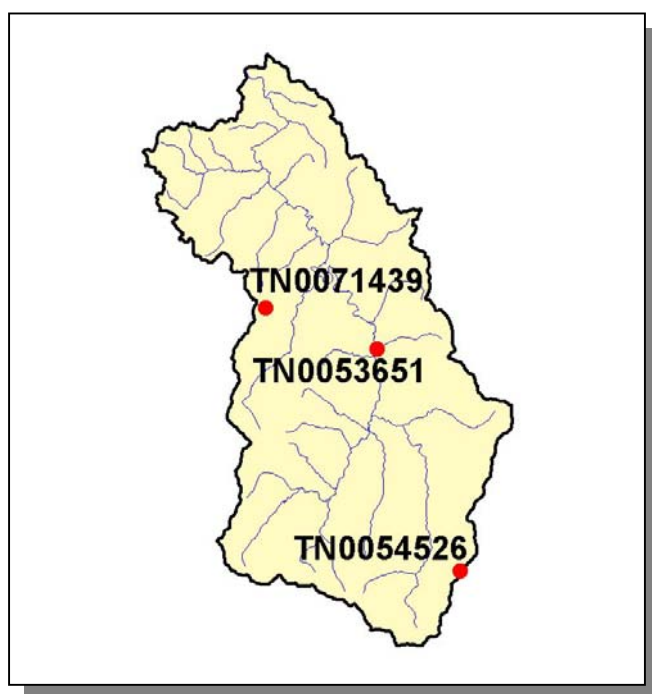


Figure 4-58. Location of Active Mining Sites in Subwatershed 051301040107. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.vii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
139	283	13	<5	122,173	<5	5

Table 4-42. Summary of Livestock Count Estimates in Subwatershed 051301040107.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-43. Summary of Livestock Count Estimates in Morgan and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-44. Forest Acreage and Annual Removal Rates (1987-1994) in Morgan and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.34
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.53
Corn (Row Crops)	7.18
Farmsteads and Ranch Headquarters	0.08

Table 4-45. Annual Estimated Total Soil Loss in Subwatershed 051301040107.

4.2.A.viii. 051301040108 (New River).

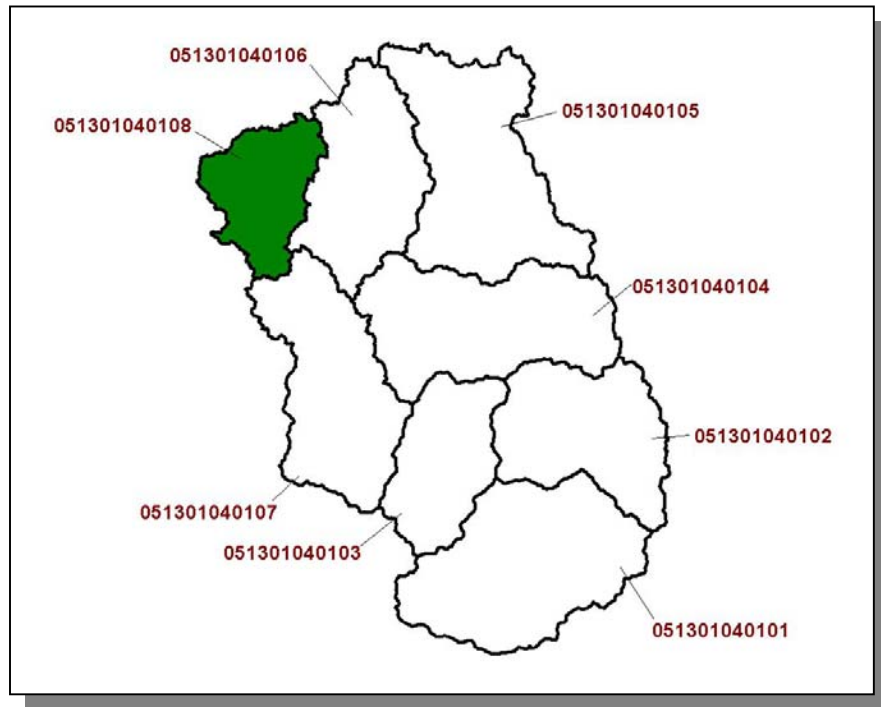


Figure 4-59. Location of Subwatershed 051301040108. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

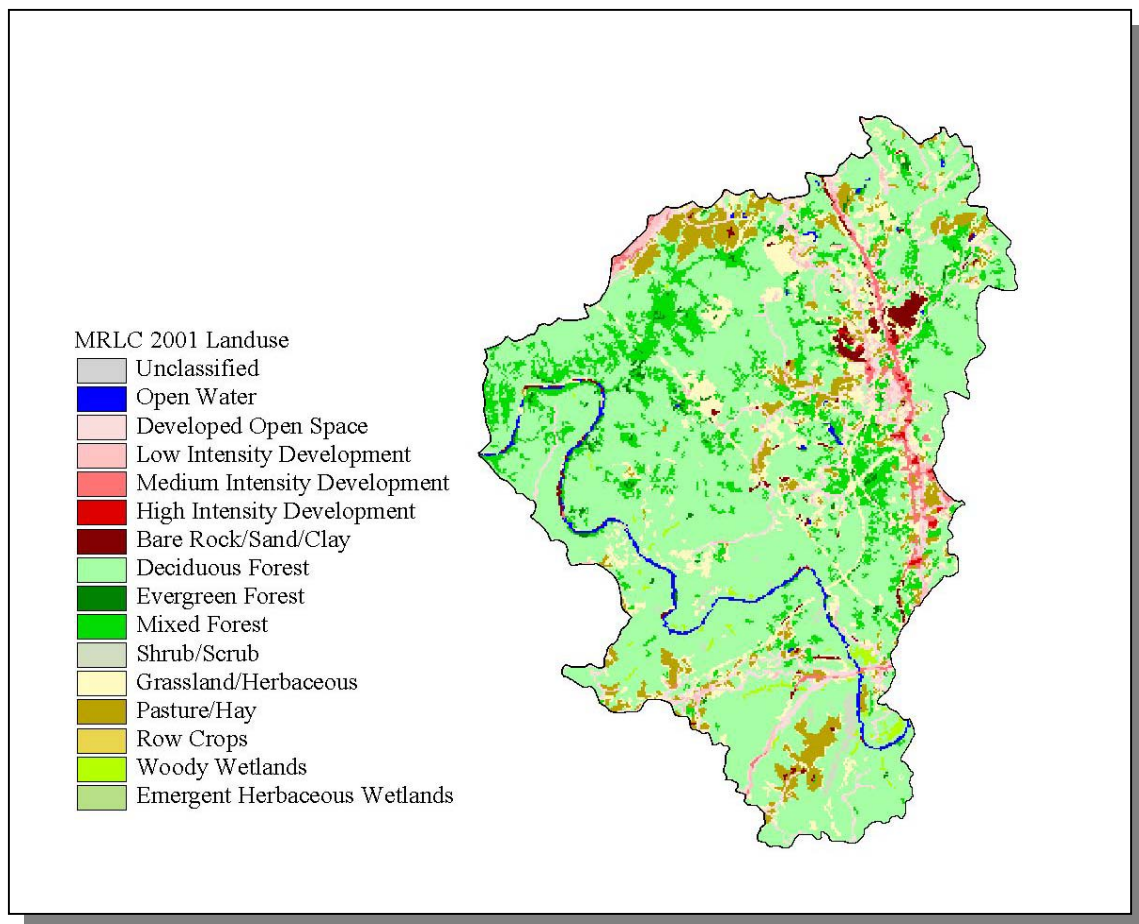


Figure 4-60. Illustration of Land Use Distribution in Subwatershed 051301040108.

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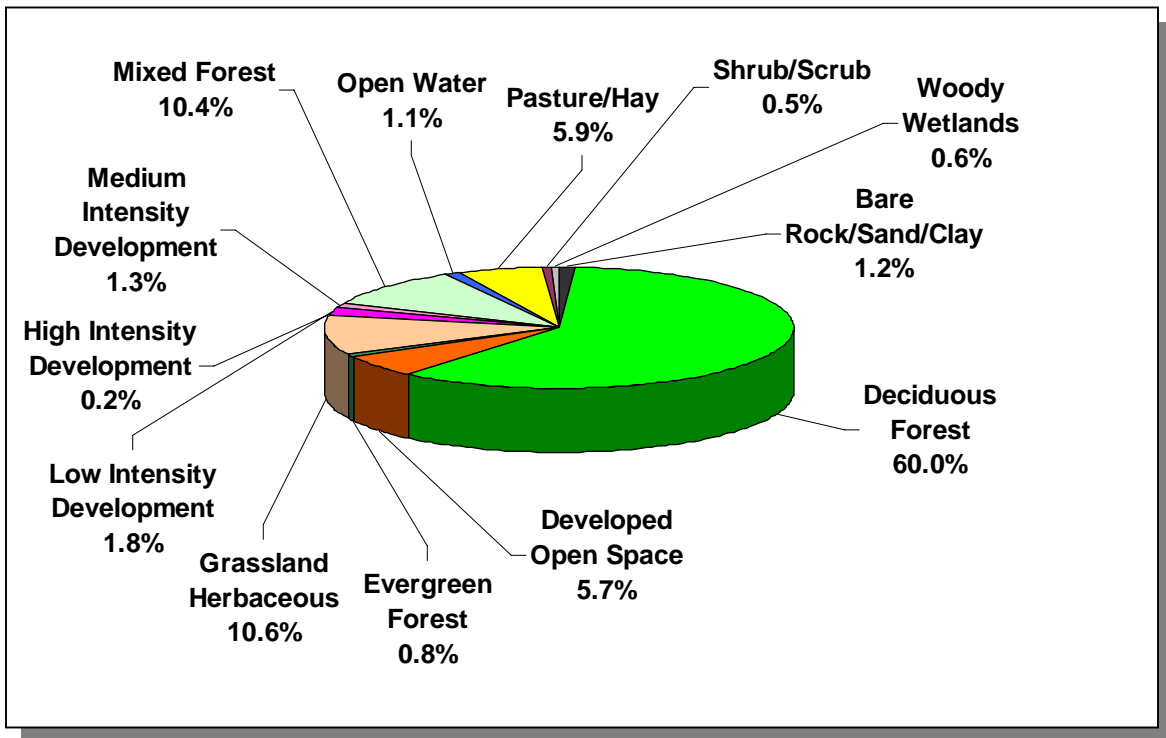


Figure 4-61. Land Use Distribution in Subwatershed 051301040108. More information is provided in Appendix IV.

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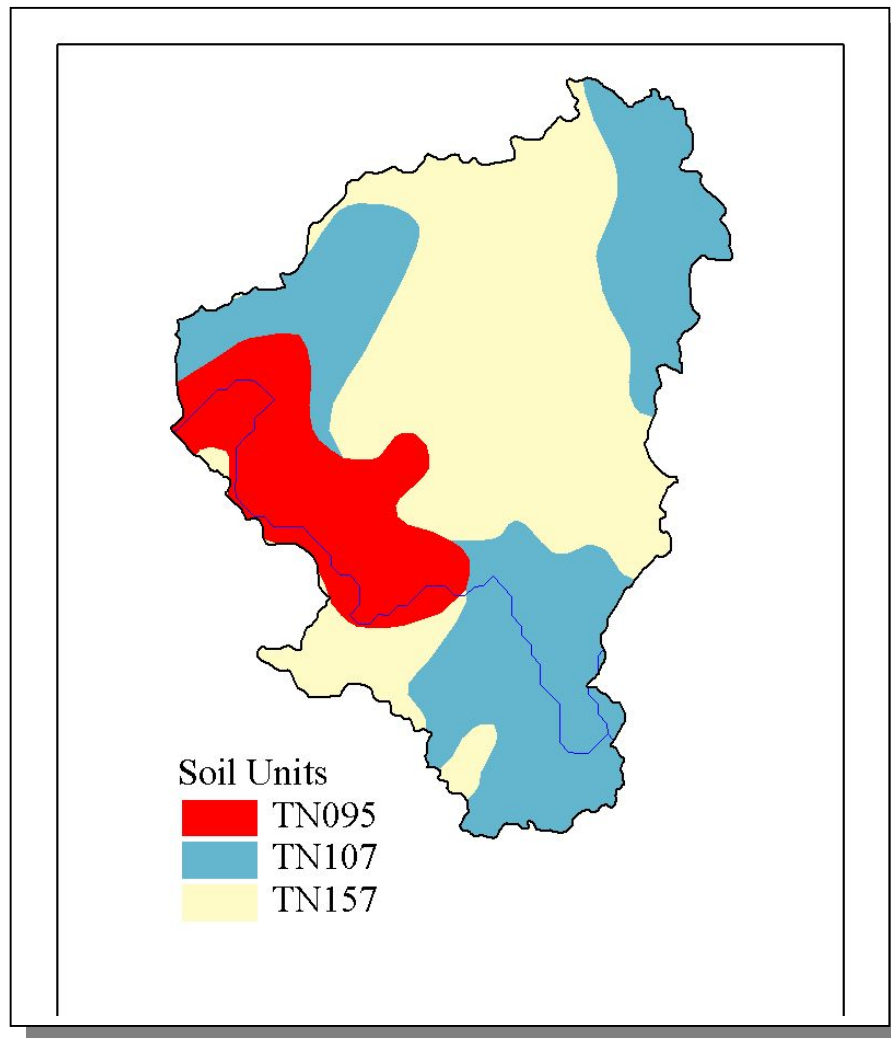


Figure 4-62. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040108.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-46. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040108. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	5.19	954	1,029	1,097	15.0

Table 4-47. Population Estimates in Subwatershed 051301040108.

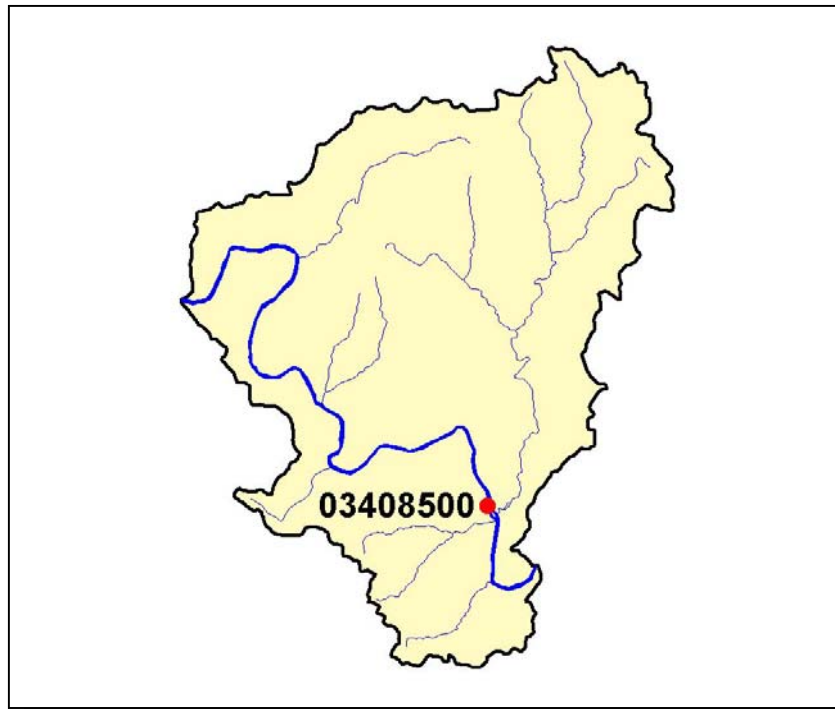


Figure 4-63. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040108. More information is provided in Appendix IV.

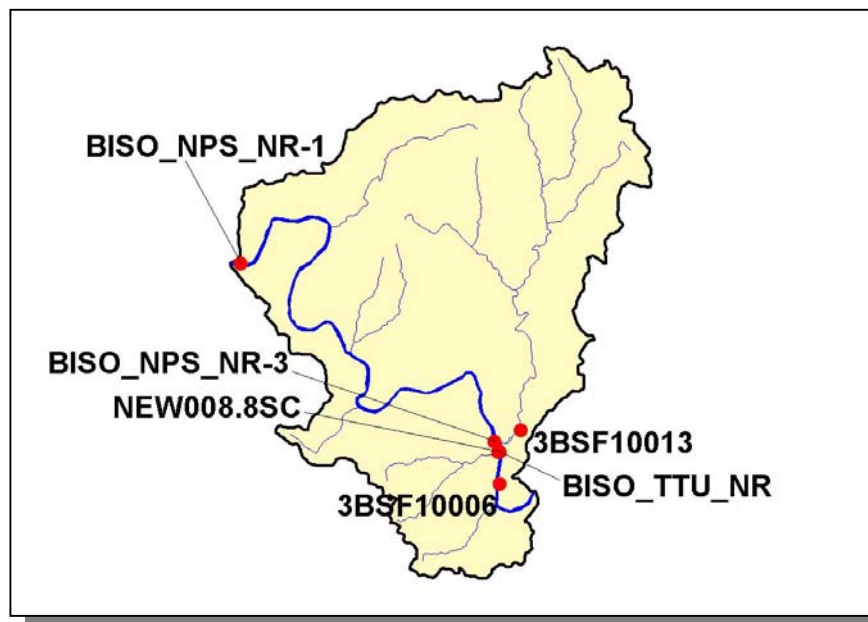


Figure 4-64. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040108. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.viii.a. Point Source Contributions.

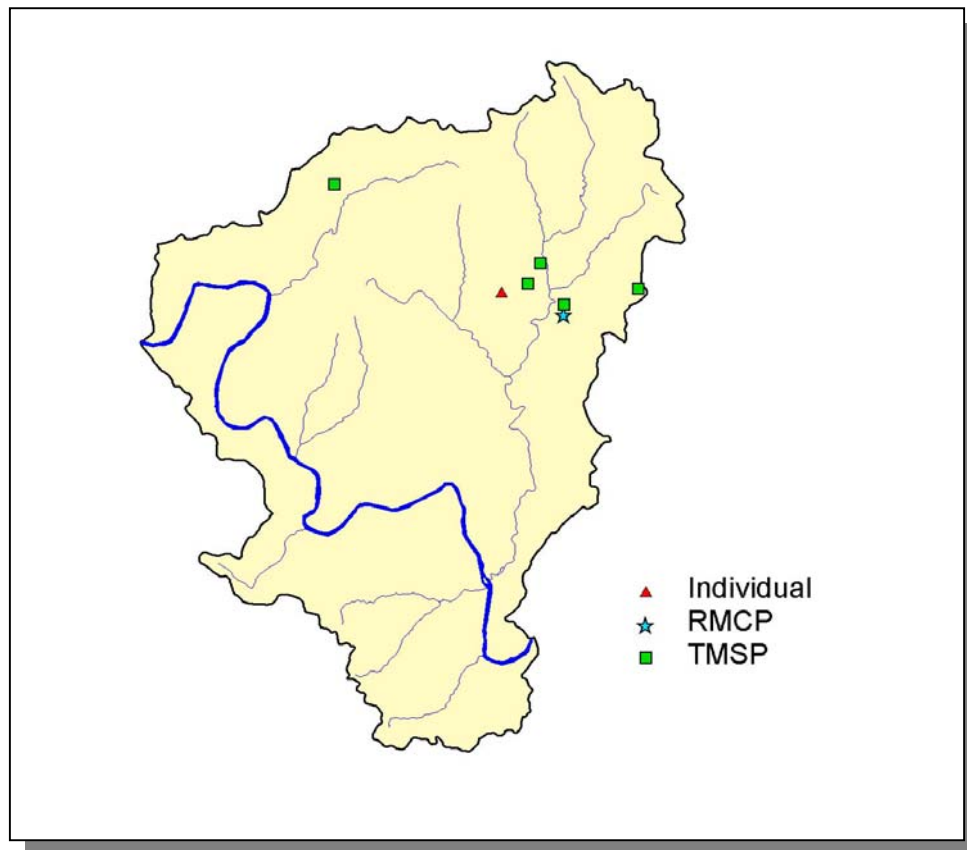


Figure 4-65. Location of Permits Issued in Subwatershed 051301040108. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-66. Location of Active NPDES Sites in Subwatershed 051301040108. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-67. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051301040108. More information is provided in Appendix IV.

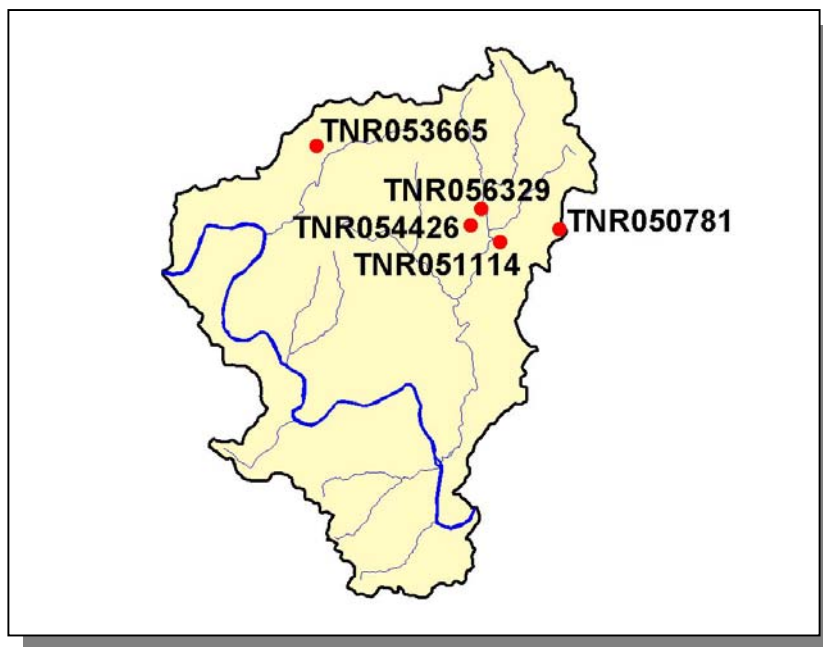


Figure 4-68. Location of TMSP Sites in Subwatershed 051301040108. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.viii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
184	376	18	<5	168,112	<5	6

Table 4-48. Summary of Livestock Count Estimates in Subwatershed 051301040108. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-49. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-50. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-51. Annual Estimated Total Soil Loss in Subwatershed 051301040108.

4.2.B. 0513010402.

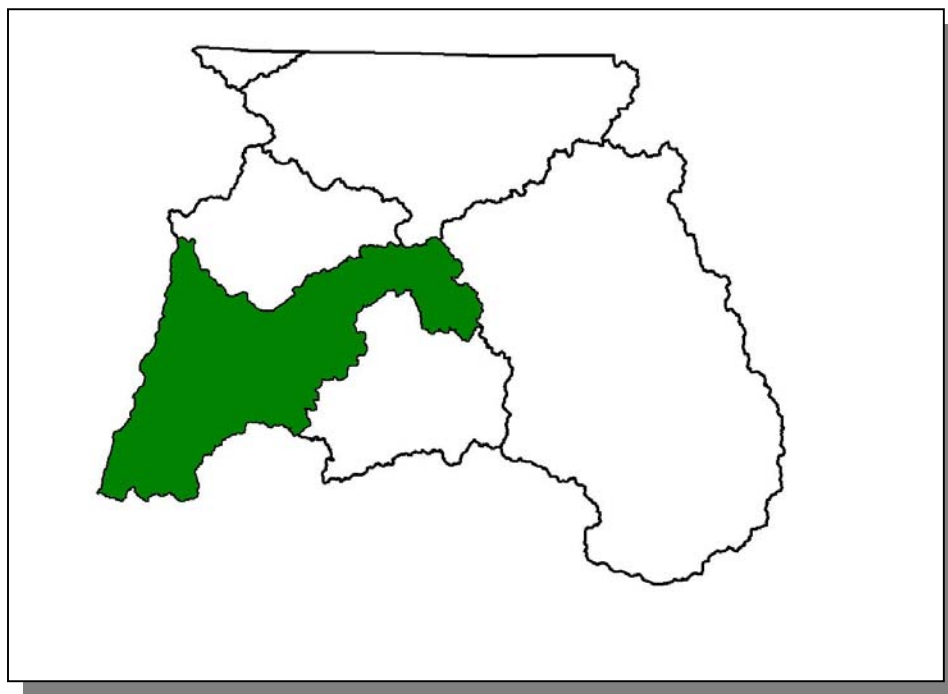


Figure 4-69. Location of Subwatershed 0513010402. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.B.i. 051301040201 (North Prong Clear Fork).

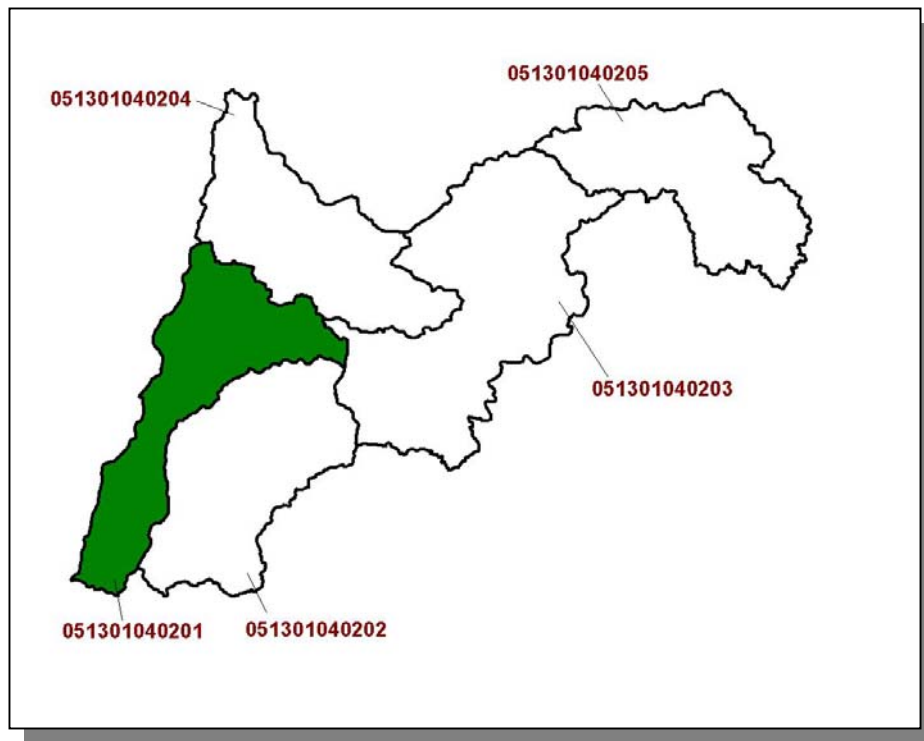


Figure 4-70. Location of Subwatershed 051301040201. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

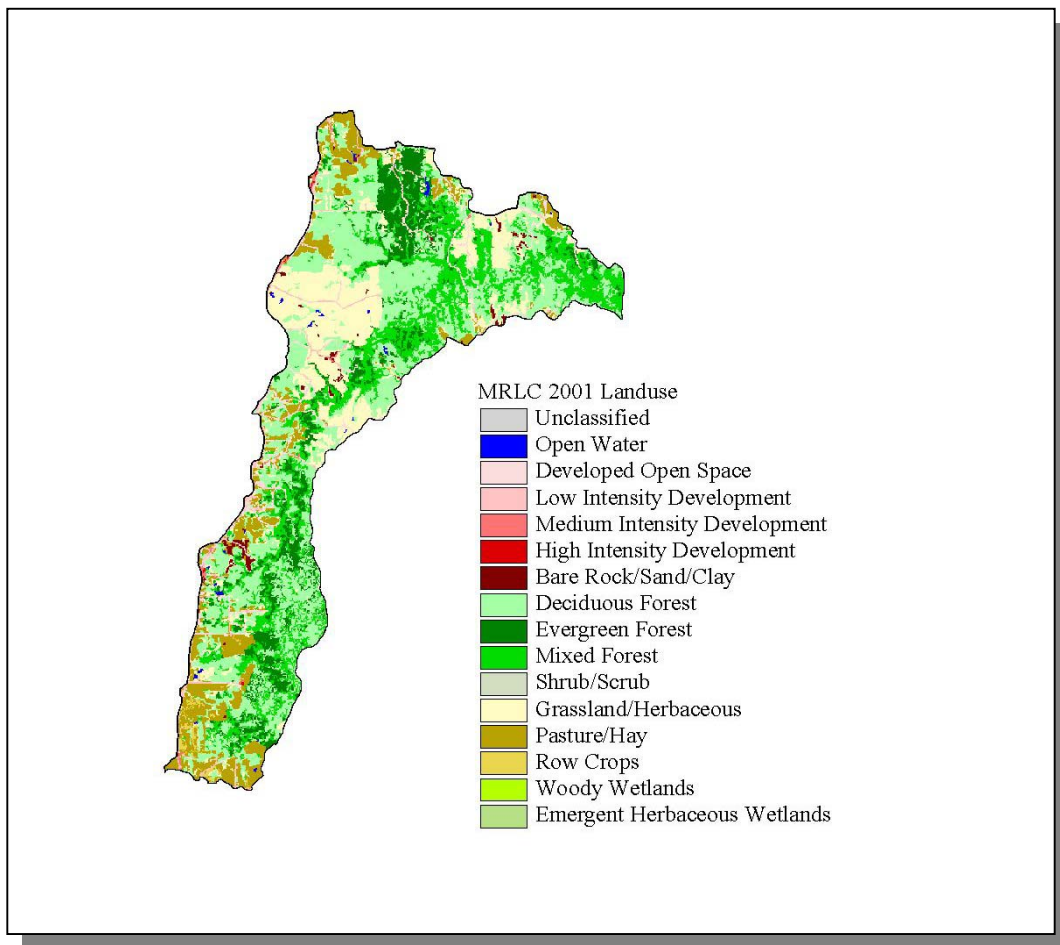


Figure 4-71. Illustration of Land Use Distribution in Subwatershed 051301040201.

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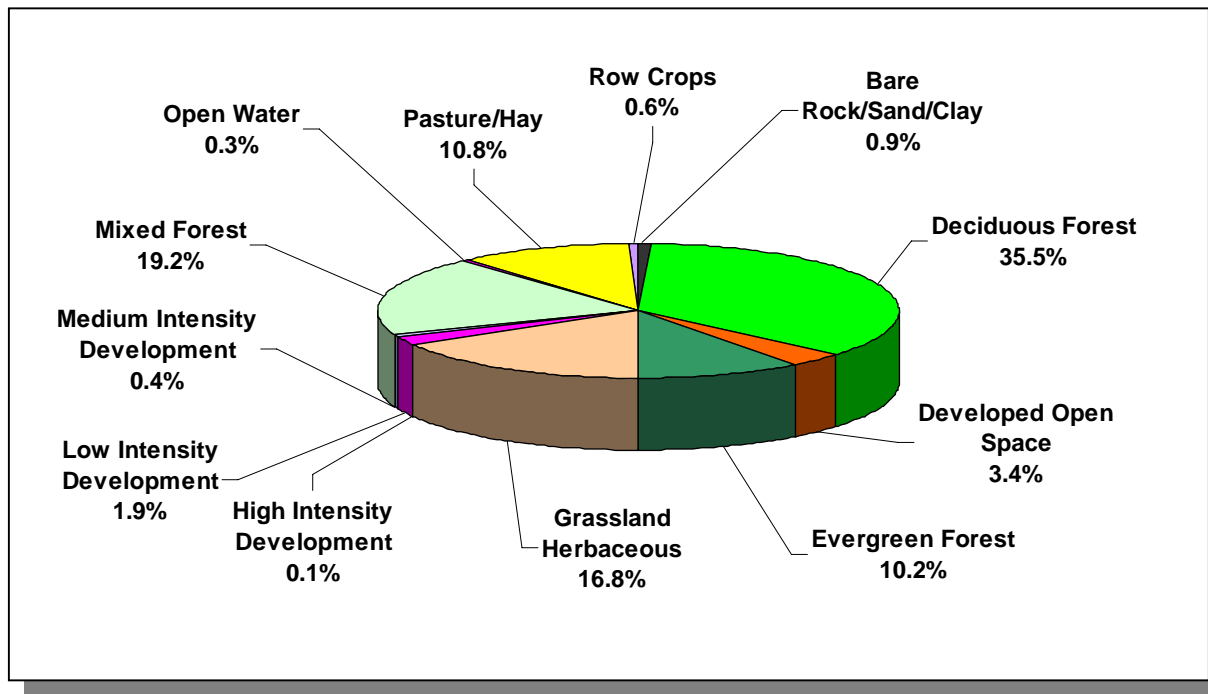


Figure 4-72. Land Use Distribution in Subwatershed 051301040201. More information is provided in Appendix IV.

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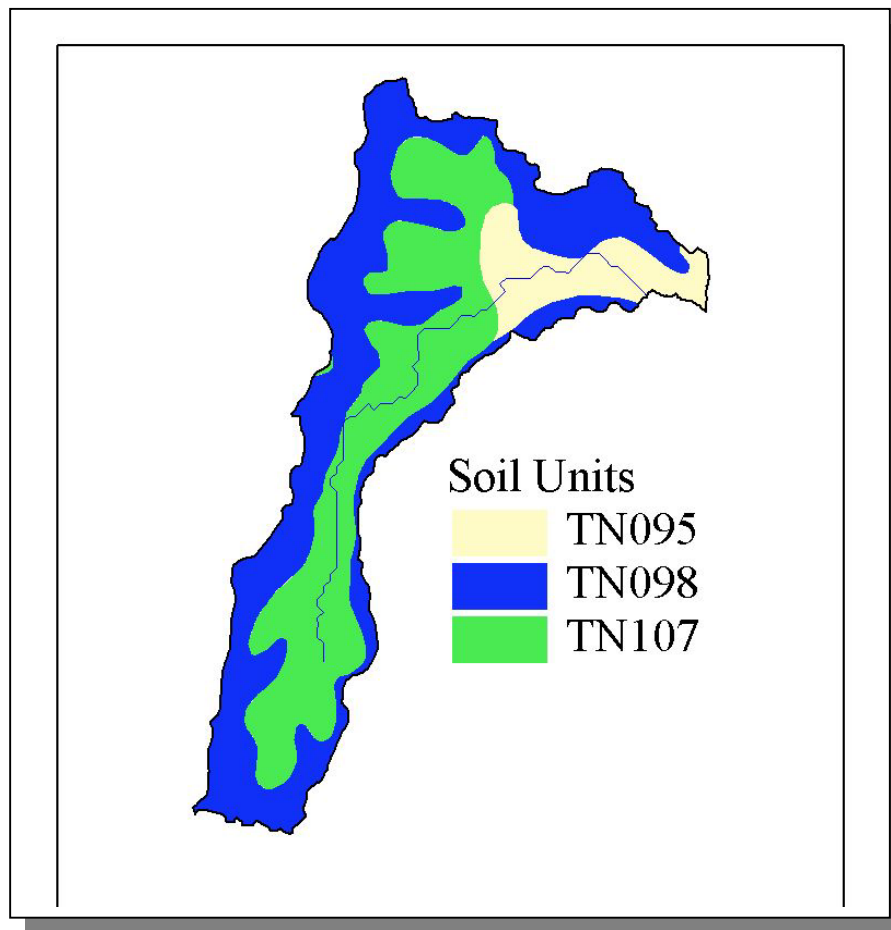


Figure 4-73. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040201.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-52. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040201. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	6.47	948	1,029	1,075	13.4

Table 4-53. Population Estimates in Subwatershed 051301040201.

4.2.B.i.a. Point Source Contributions.



Figure 4-74. Location of Permits Issued in Subwatershed 051301040201. More information, including the names of facilities, is provided in Appendix IV.

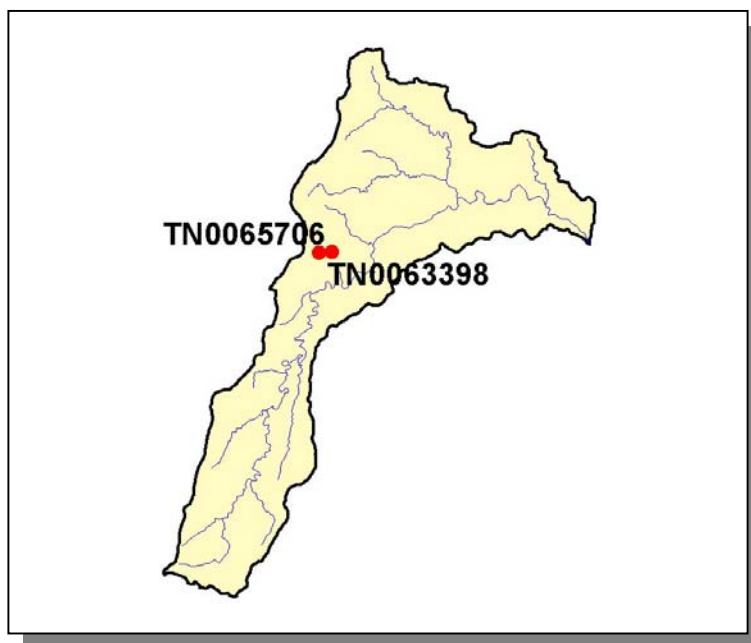


Figure 4-75. Location of Active Mining Sites in Subwatershed 051301040201. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.B.i.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
792	1,696	42	<5	716,228	72	8

Table 4-54. Summary of Livestock Count Estimates in Subwatershed 051301040201. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79

Table 4-55. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3

Table 4-56. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.4
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.4

Table 4-57. Annual Estimated Total Soil Loss in Subwatershed 051301040201.

4.2.B.ii. 051301040202 (South Prong Clear Fork).

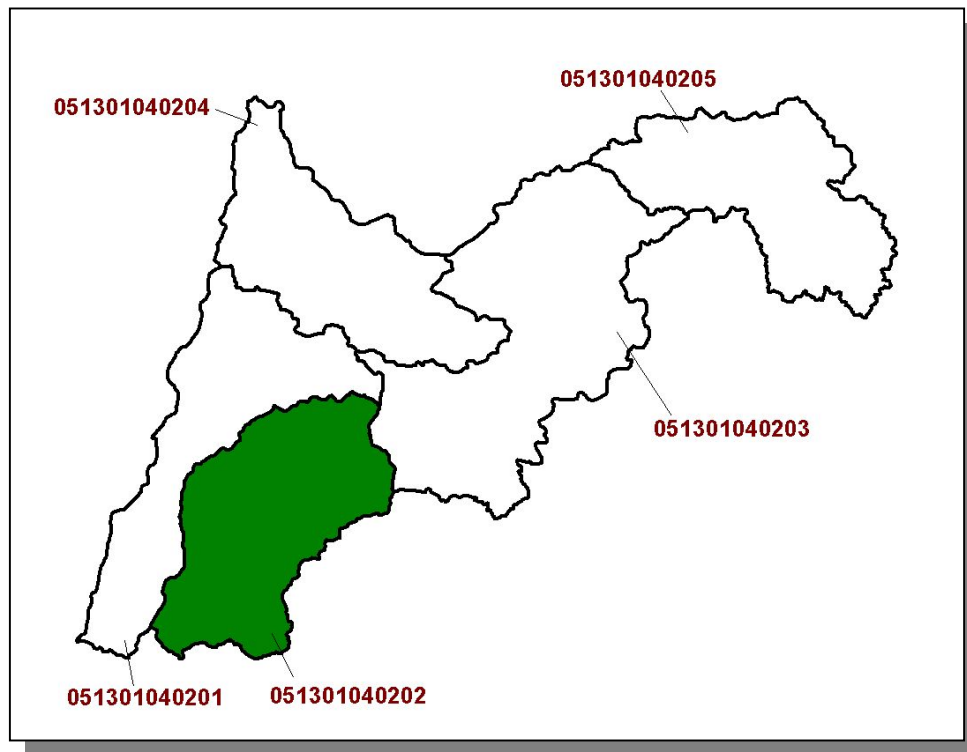


Figure 4-76. Location of Subwatershed 051301040202. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

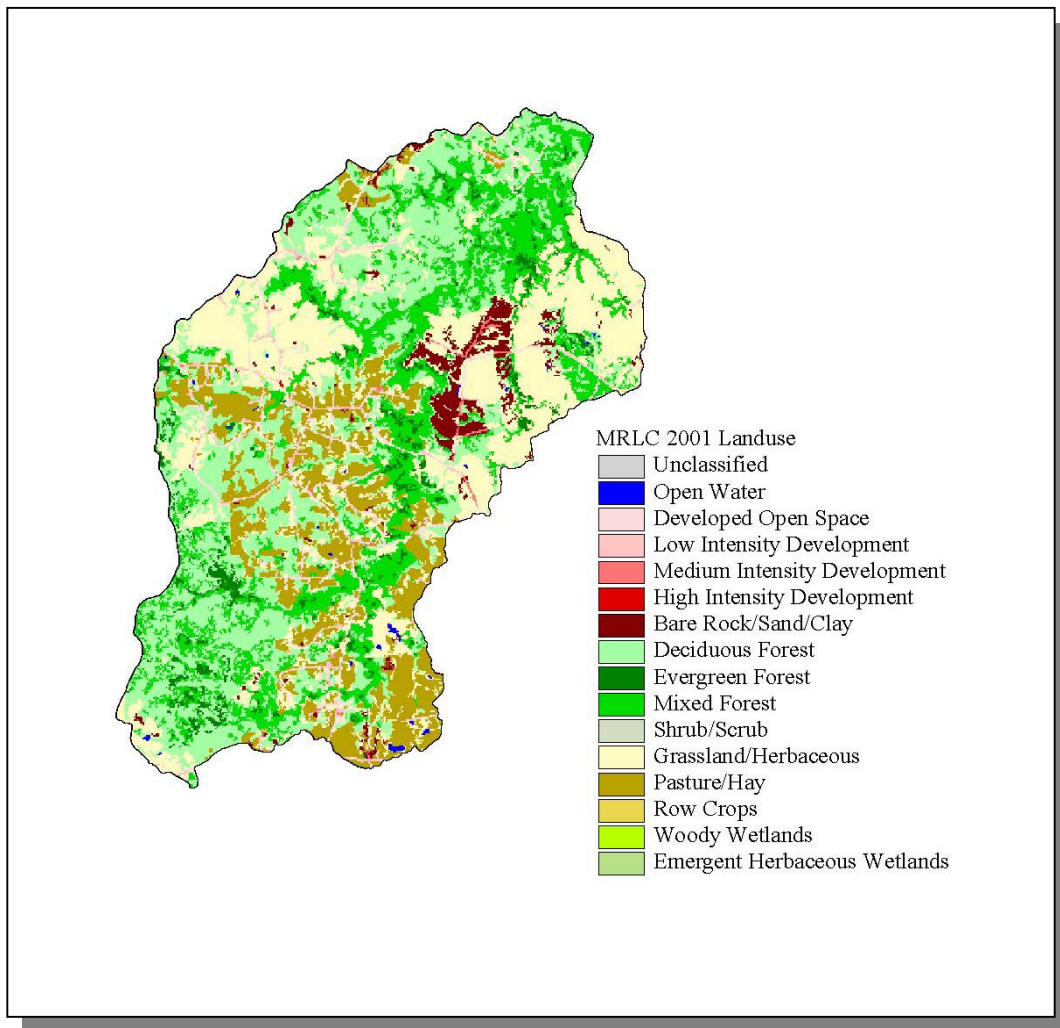


Figure 4-77. Illustration of Land Use Distribution in Subwatershed 051301040202.

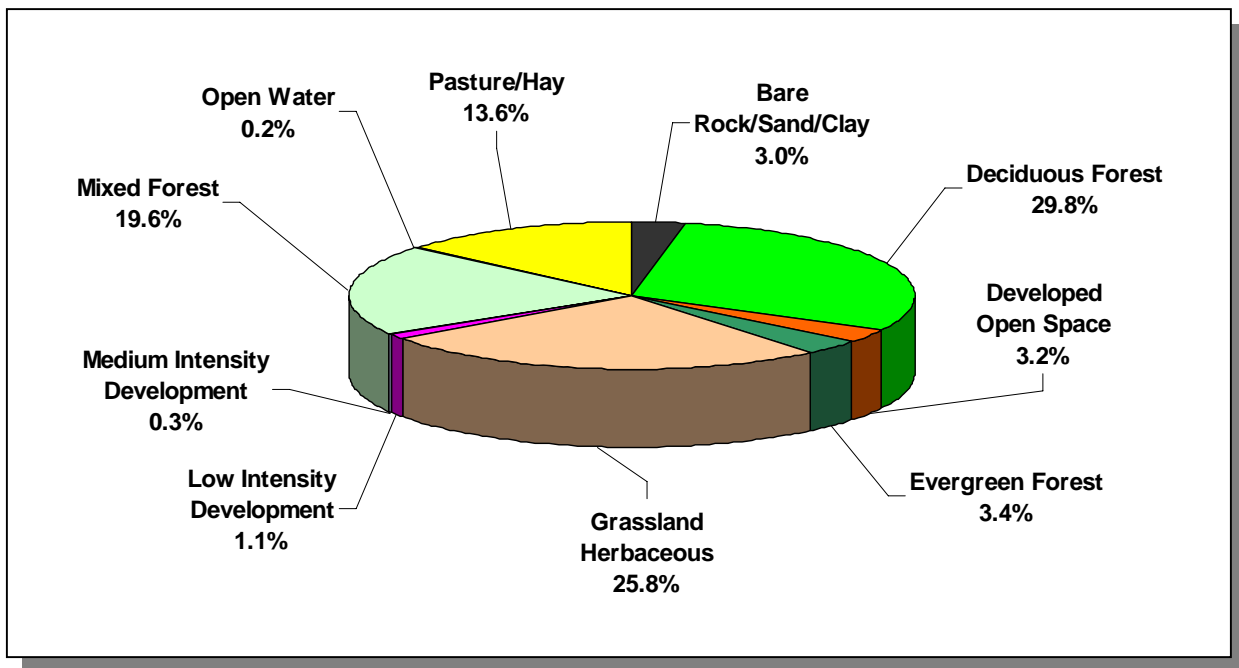


Figure 4-78. Land Use Distribution in Subwatershed 051301040202. More information is provided in Appendix IV.

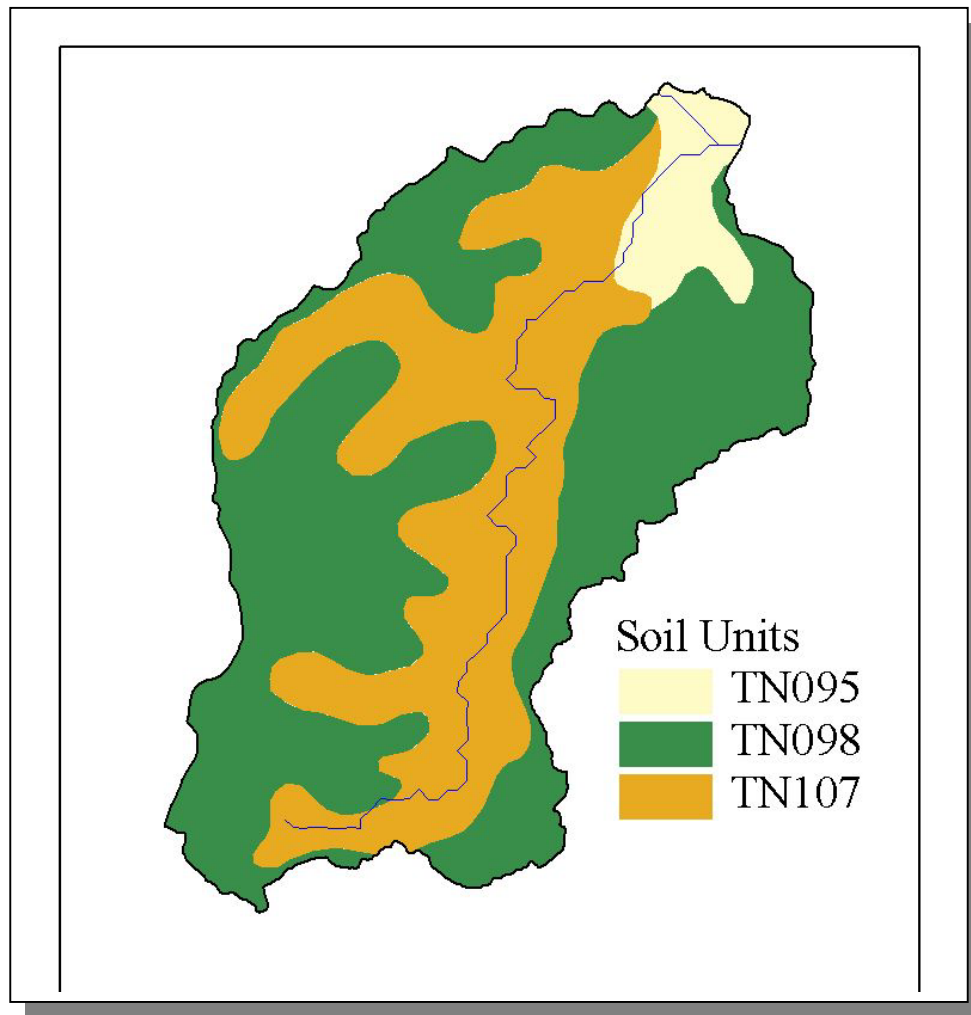


Figure 4-79. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040202.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-58. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040202. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	6.52	957	1,038	1,084	13.3
Morgan	17,300	18,521	19,757	0.51	89	95	102	14.6
Total	31,969	34,441	36,382		1,046	1,133	1,186	13.4

Table 4-59. Population Estimates in Subwatershed 051301040202.

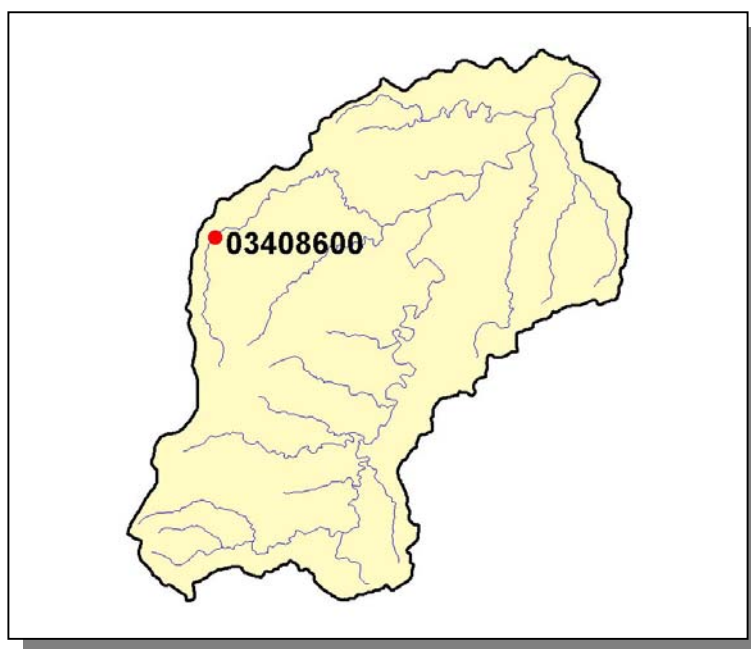


Figure 4-80. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040202. More information is provided in Appendix IV.

4.2.B.ii.a. Point Source Contributions.

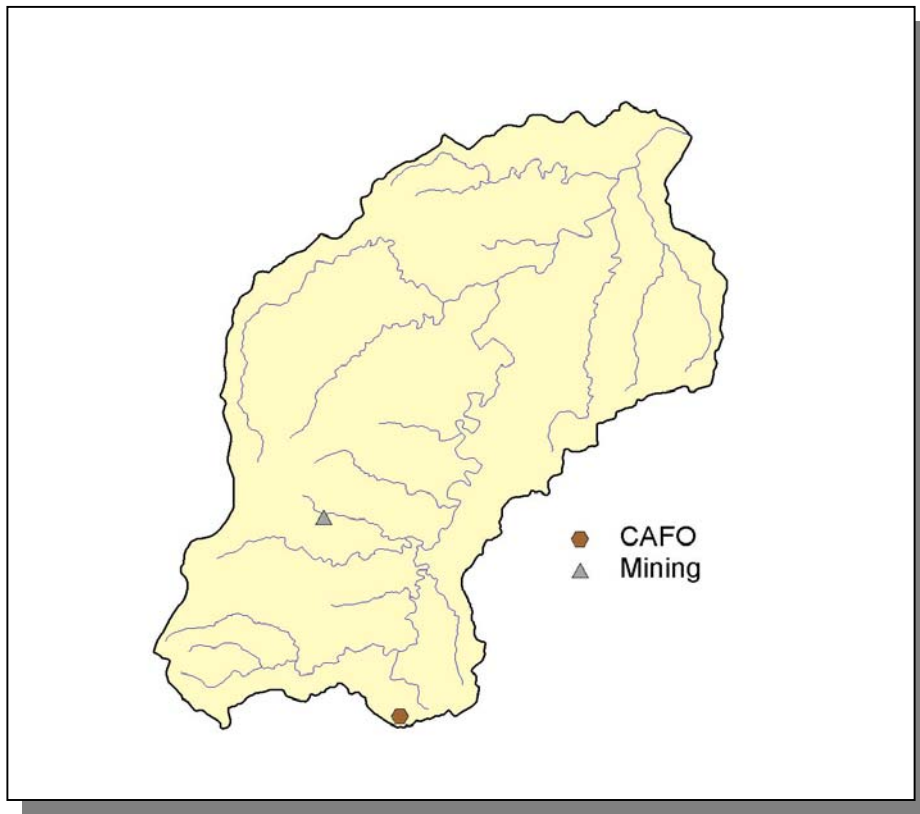


Figure 4-81. Location of Permits Issued in Subwatershed 051301040202. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-82. Location of Active Mining Sites in Subwatershed 051301040202. More information, including the names of mining operations, is provided in Appendix IV.

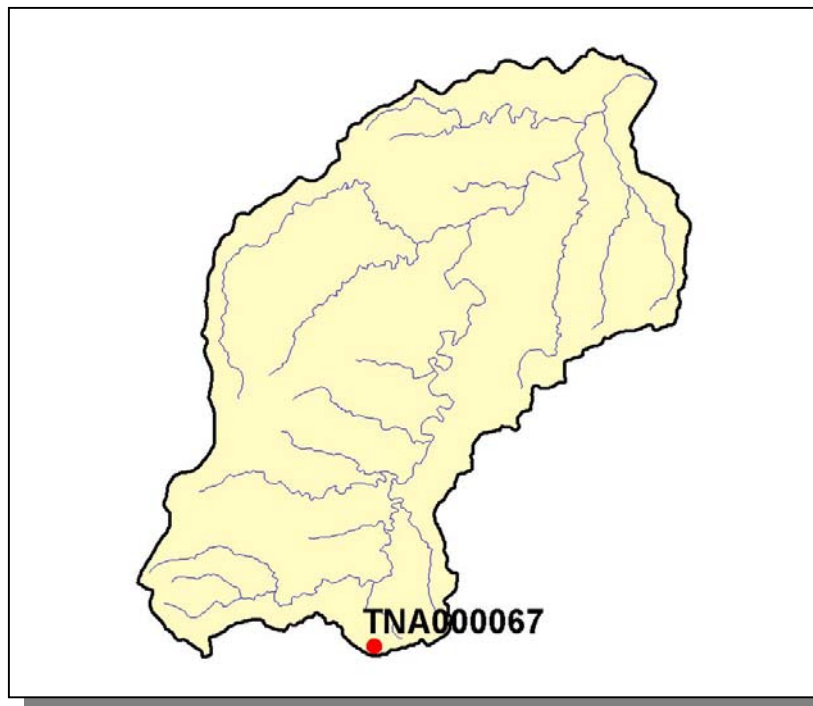


Figure 4-83. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 051301040202. More information, including the names of facilities, is provided in Appendix IV.

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4.2.B.ii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
818	1,753	44	<5	740,319	74	8

Table 4-60. Summary of Livestock Count Estimates in Subwatershed 051301040202.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Morgan	4,697	8,853	251	1,501,559	194	83	35

Table 4-61. Summary of Livestock Count Estimates in Fentress and Morgan Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Morgan	287.8	276.2	3.5	10.9

Table 4-62. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Morgan Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.70
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.53
Grass, Forbs, Legumes (Mixed Pasture)	0.26
Corn (Row Crops)	15.49
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crop	15.94
Farmsteads and Ranch Headquarters	0.37

Table 4-63. Annual Estimated Total Soil Loss in Subwatershed 051301040202.

4.2.B.iii. 051301040203 (Upper Clear Fork).

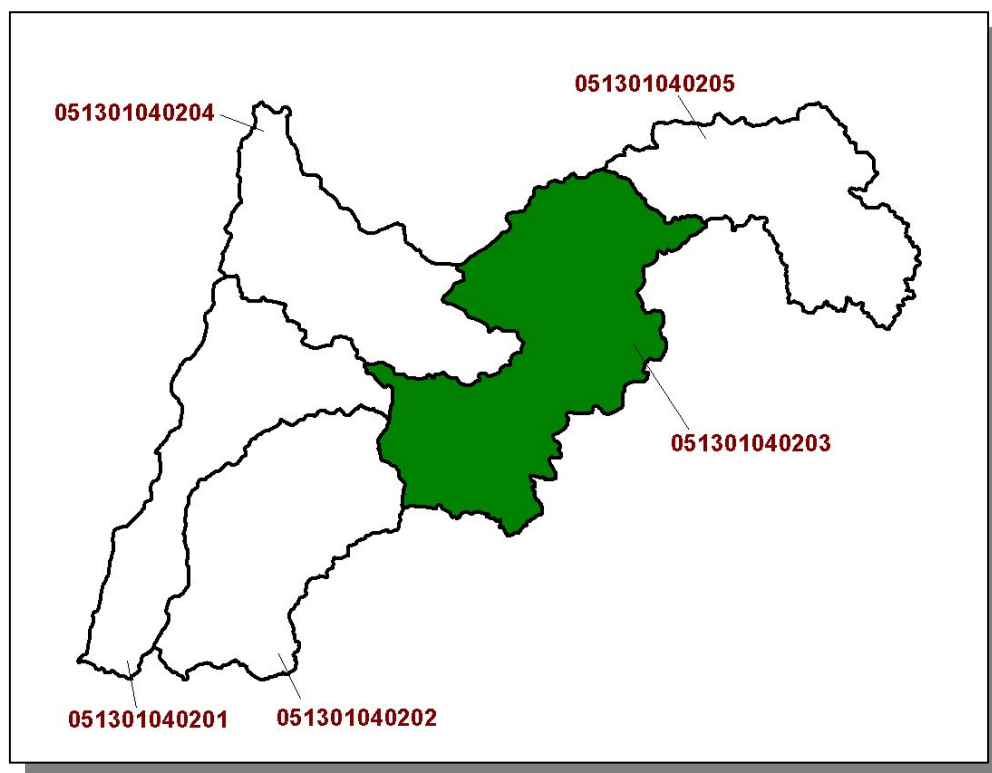


Figure 4-84. Location of Subwatershed 051301040203. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

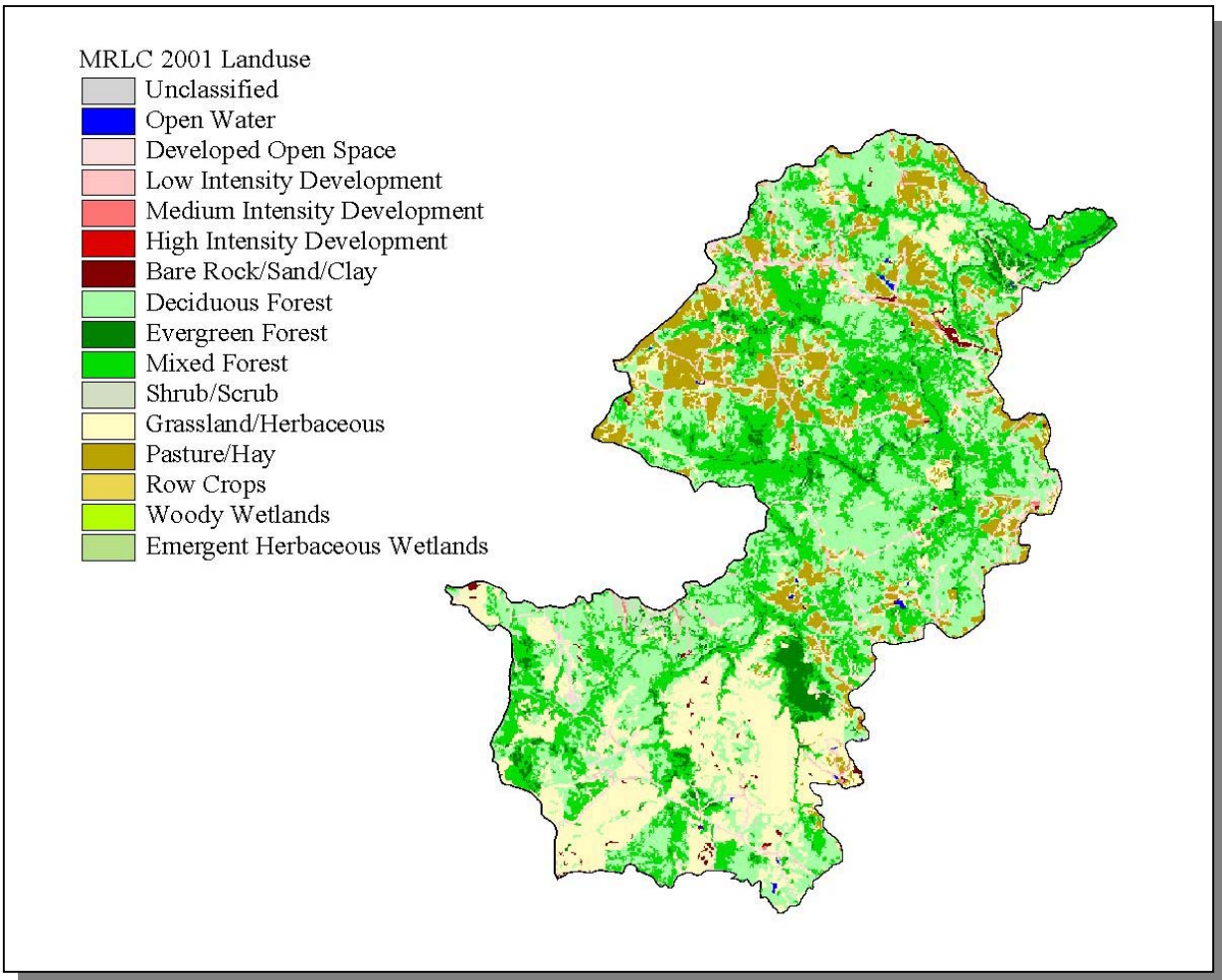


Figure 4-85. Illustration of Land Use Distribution in Subwatershed 051301040203.

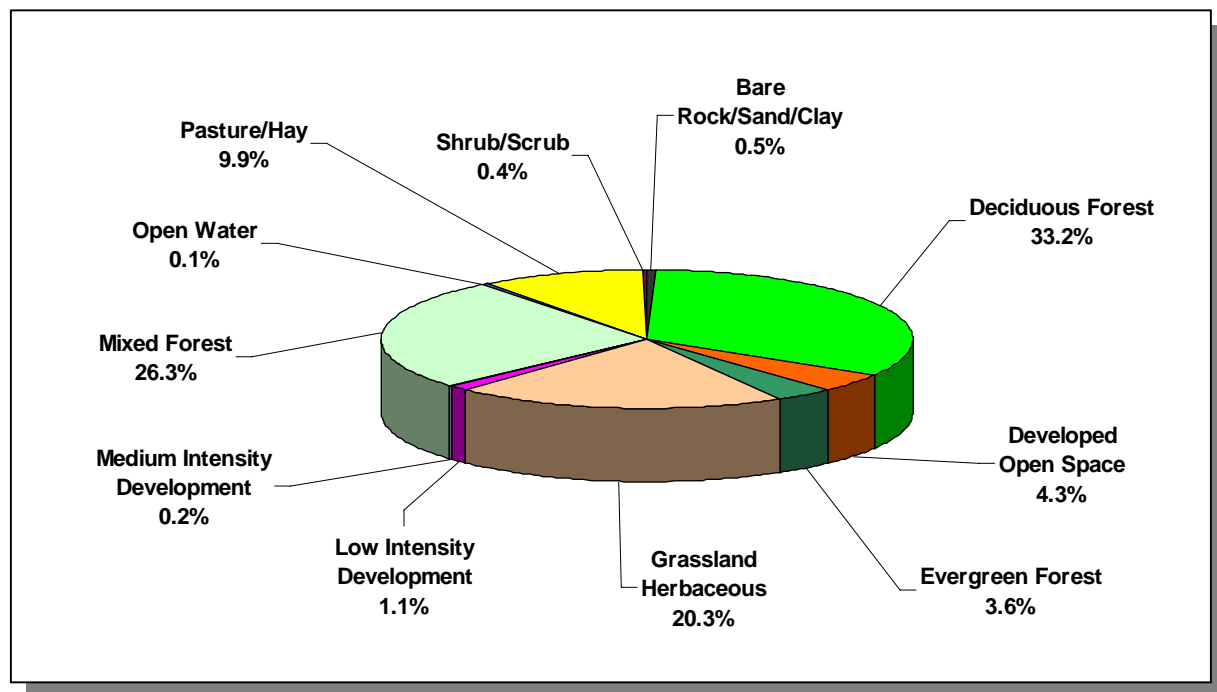


Figure 4-86. Land Use Distribution in Subwatershed 051301040203. More information is provided in Appendix IV.

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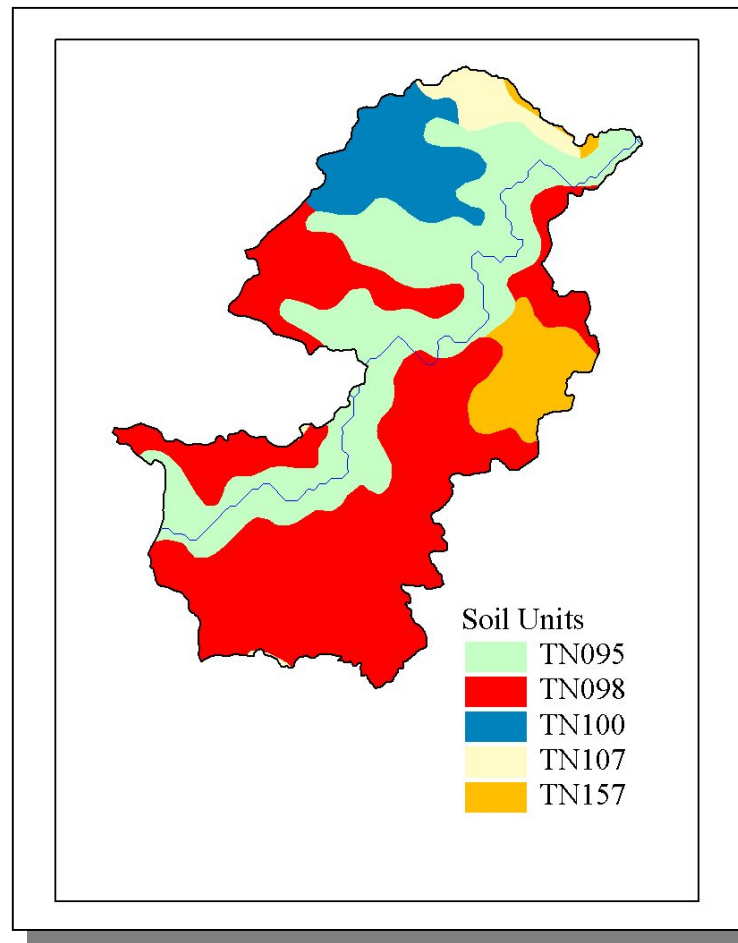


Figure 4-87. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040203.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN100	0.00	B	1.14	3.35	Silty Loam	0.21
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-64. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040203. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	5.27	774	840	877	13.3
Morgan	17,300	18,521	19,757	4.82	834	893	953	14.3
Scott	18,358	19,816	21,127	0.01	2	2	2	0.0
Total	50,327	54,257	57,509		1,610	1,735	1,832	13.8

Table 4-65. Population Estimates in Subwatershed 051301040203.



Figure 4-88. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040203. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.iii.a. Point Source Contributions.



Figure 4-89. Location of Permits Issued in Subwatershed 0513010400203. More information, including the names of facilities, is provided in Appendix IV.

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4.2.B.iii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
904	1,861	48	<5	648,297	61	8

Table 4-66. Summary of Livestock Count Estimates in Subwatershed 051301040203. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-67. Summary of Livestock Count Estimates in Fentress, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-68. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Morgan, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.58
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.39
Grass, Forbs, Legumes (Mixed Pasture)	0.19
Corn (Row Crops)	11.78
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.22

Table 4-69. Annual Estimated Total Soil Loss in Subwatershed 051301040203.

4.2.B.iv. 051301040204 (Crooked Creek).

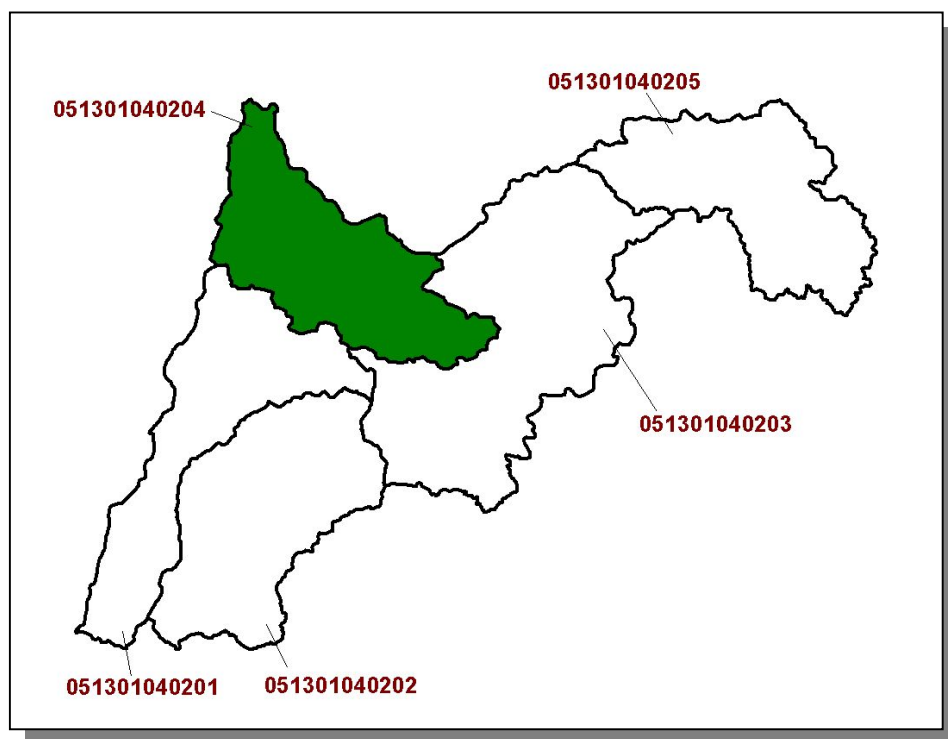


Figure 4-90. Location of Subwatershed 051301040204. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

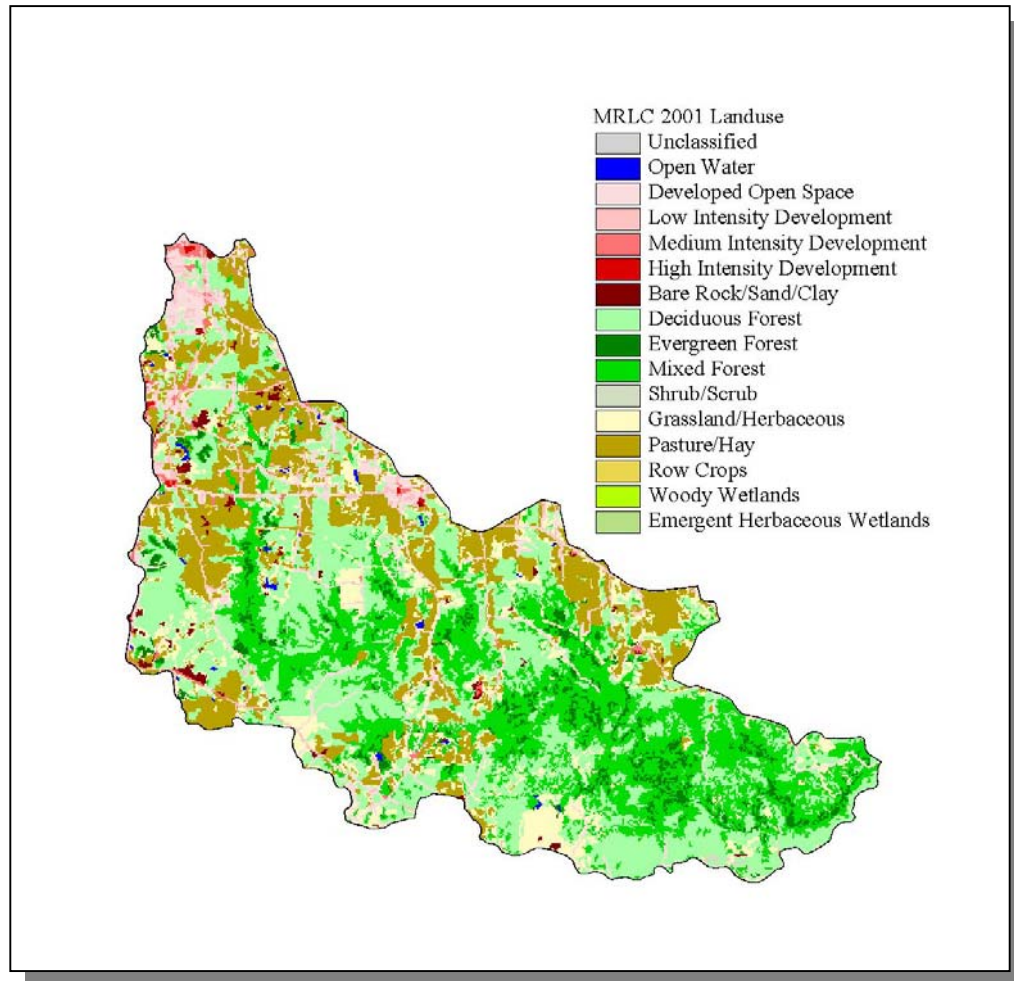


Figure 4-91. Illustration of Land Use Distribution in Subwatershed 051301040204.

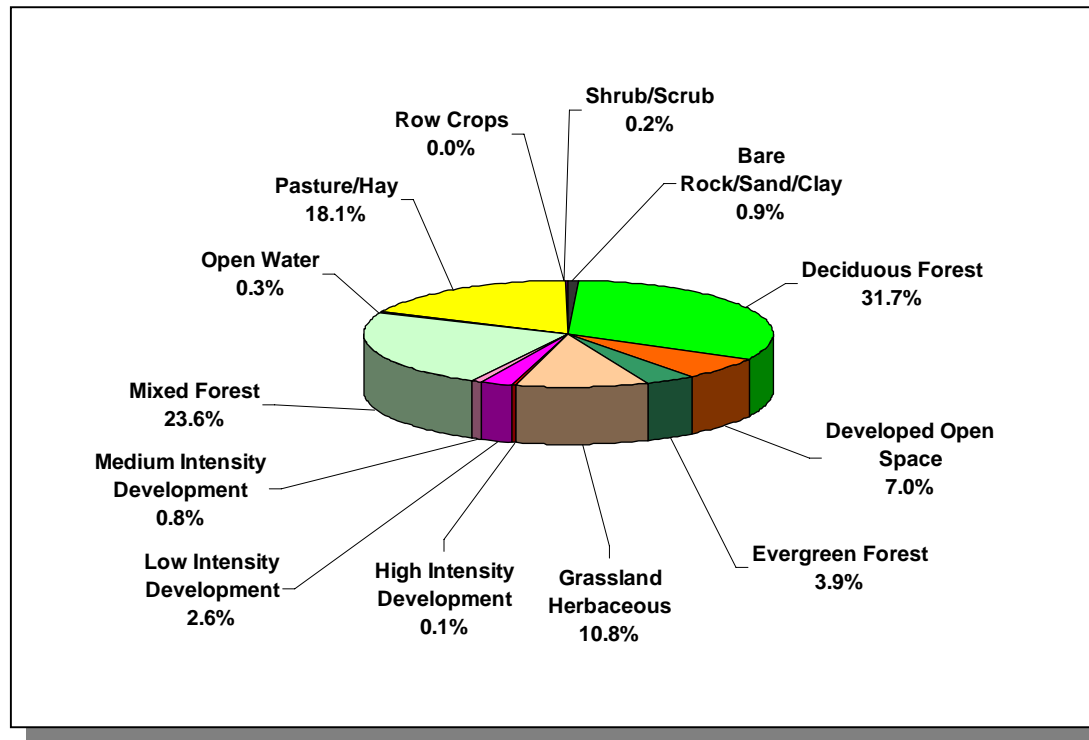


Figure 4-92. Land Use Distribution in Subwatershed 051301040204. More information is provided in Appendix IV.

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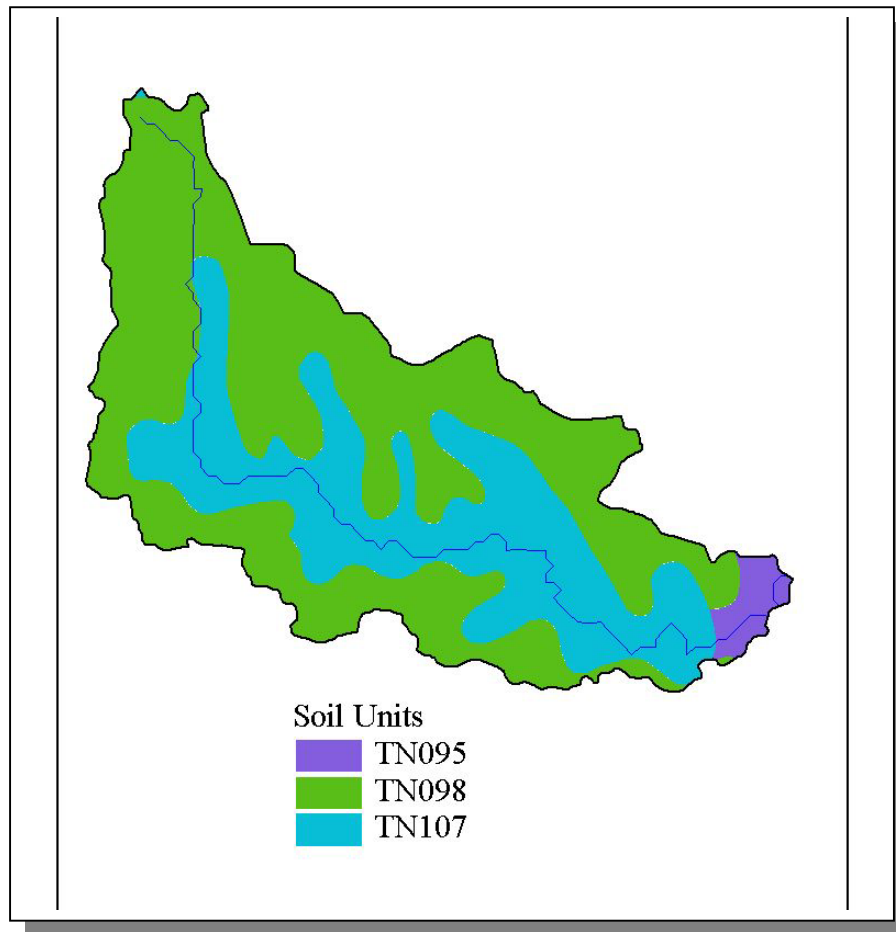


Figure 4-93. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040204.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-70. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040204. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	6.52	956	1,037	1,083	13.3

Table 4-71. Population Estimates in Subwatershed 051301040204.



Figure 4-94. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040204. More information is provided in Appendix IV.

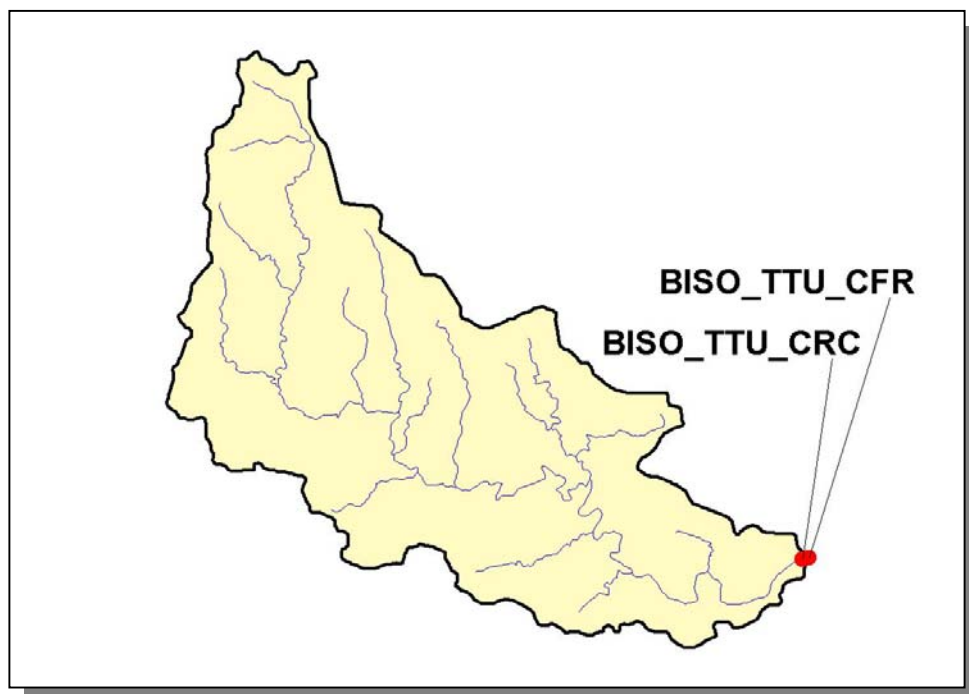


Figure 4-95. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040204. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.iv.a. Point Source Contributions.

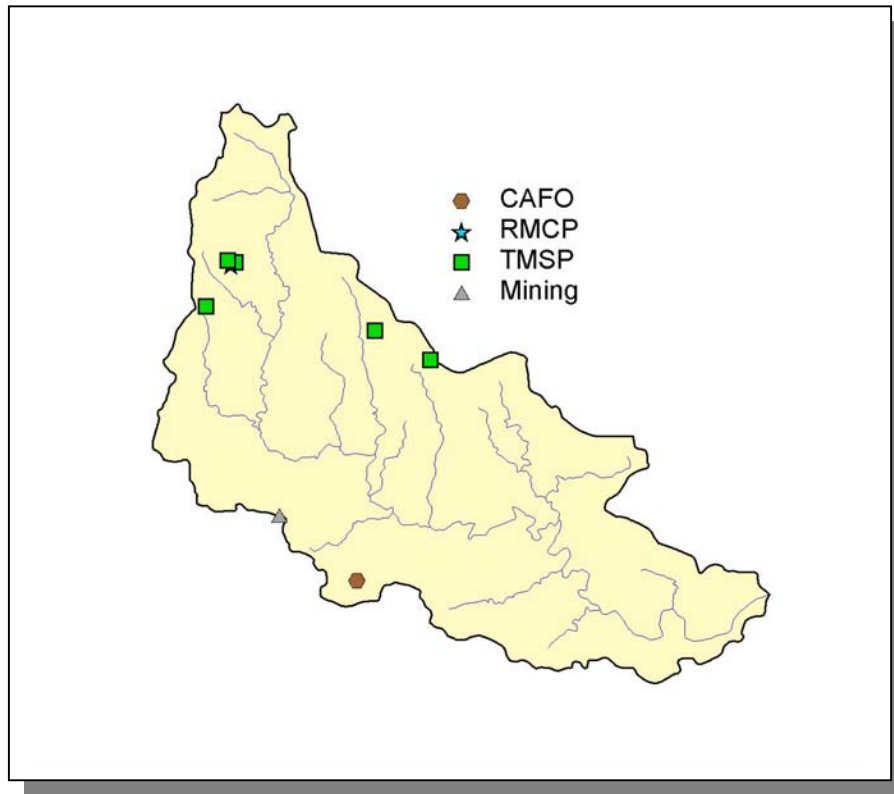


Figure 4-96. Location of Permits Issued in Subwatershed 051301040204. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-97. Location of Active Mining Sites in Subwatershed 051301040204. More information, including the names of mining operations, is provided in Appendix IV.



Figure 4-98. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 0513010204. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-99. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051301040204. More information is provided in Appendix IV.

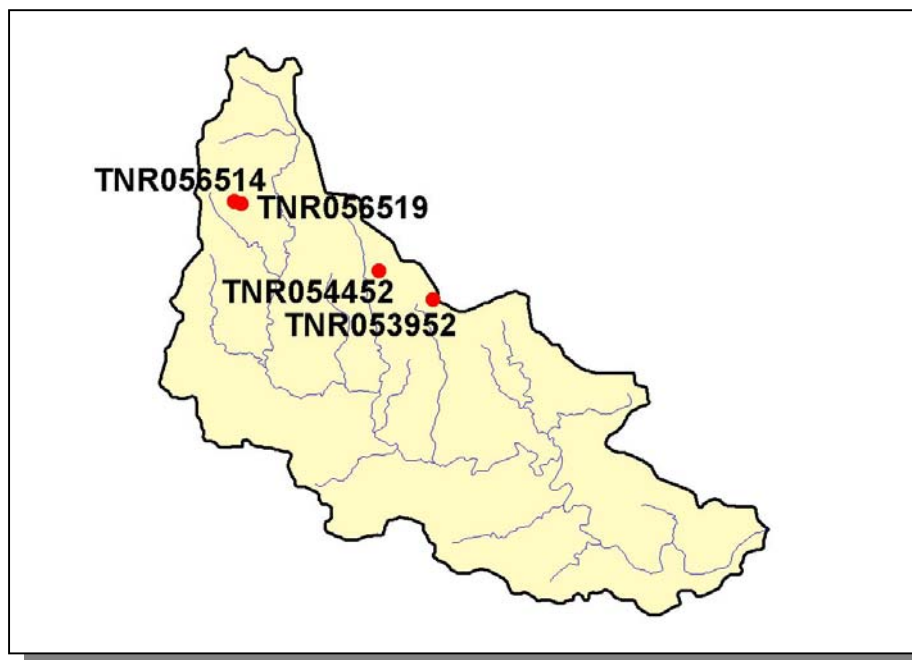


Figure 4-100. Location of TMSP Sites in Subwatershed 051301040204. More information, including the names of facilities, is provided in Appendix IV.

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4.2.B.iv.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
938	2,010	50	<5	848,987	85	9

Table 4-72. Summary of Livestock Count Estimates in Subwatershed 051301040204. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79

Table 4-73. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3

Table 4-74. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.40

Table 4-75. Annual Estimated Total Soil Loss in Subwatershed 051301040204.

4.2.B.v. 051301040205 (Lower Clear Fork).

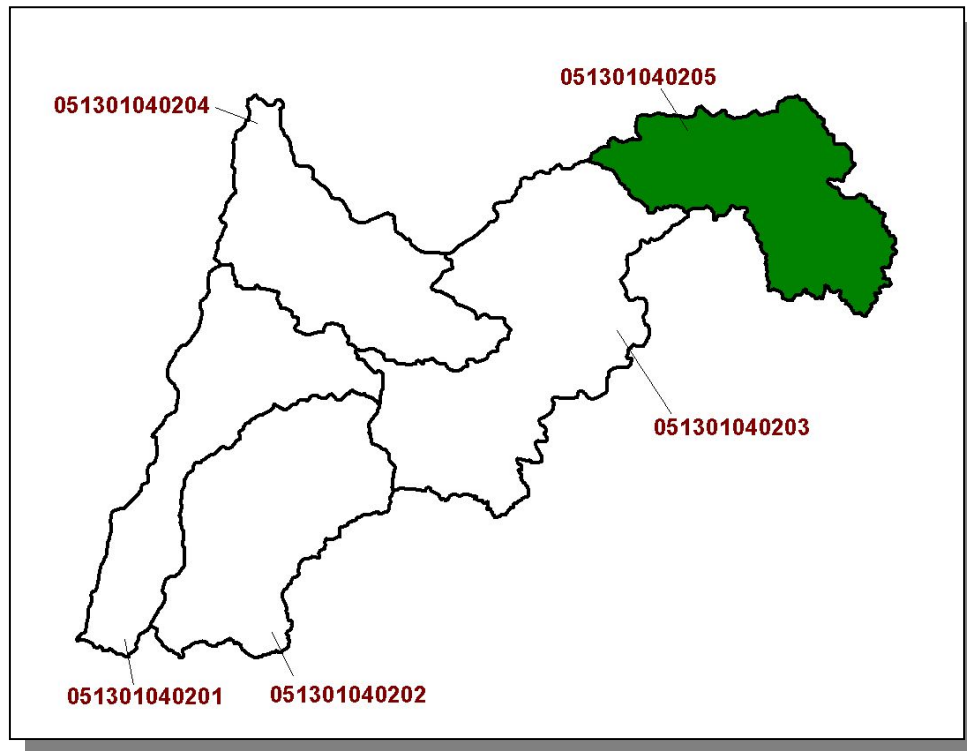


Figure 4-101. Location of Subwatershed 051301040205. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

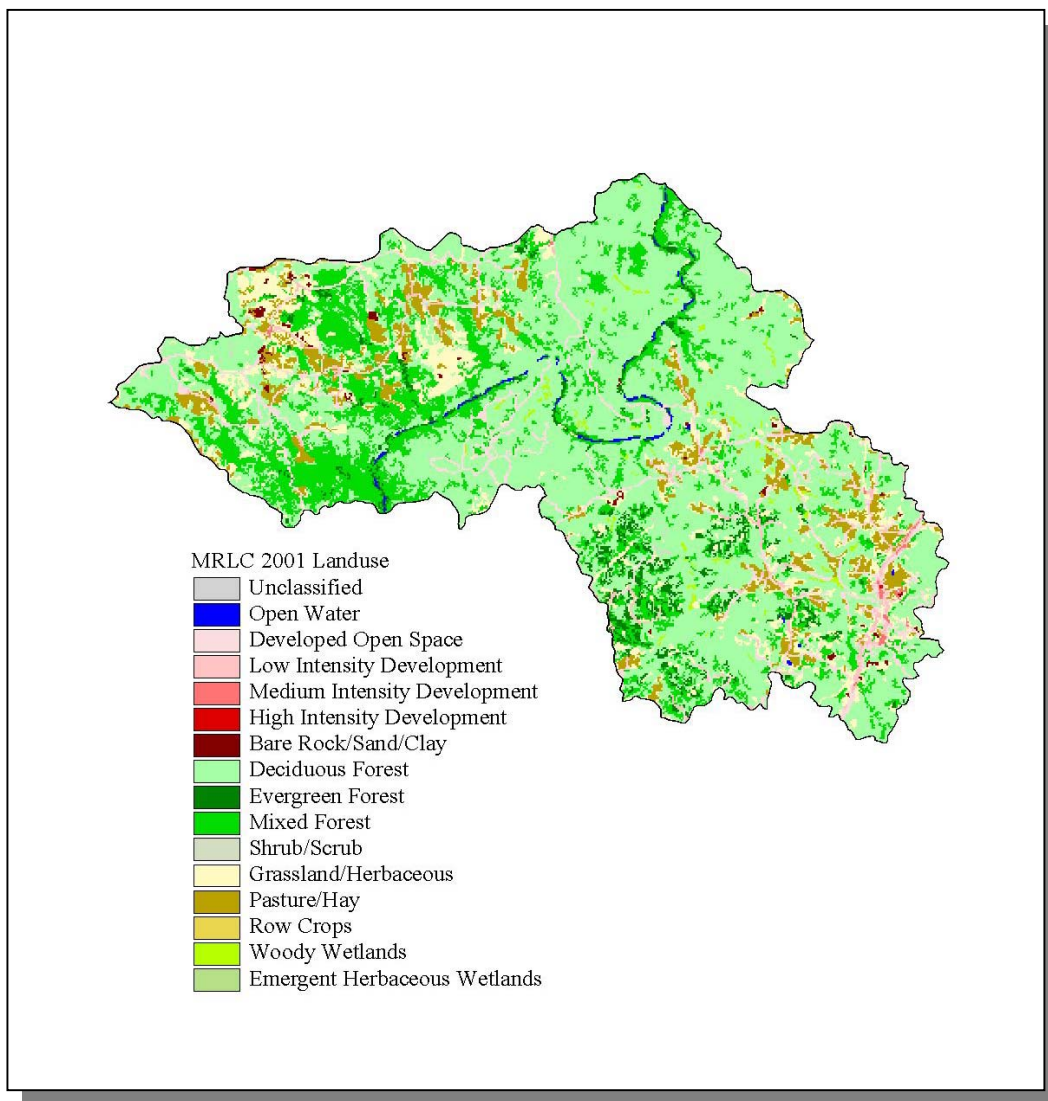


Figure 4-102. Illustration of Land Use Distribution in Subwatershed 051301040205.

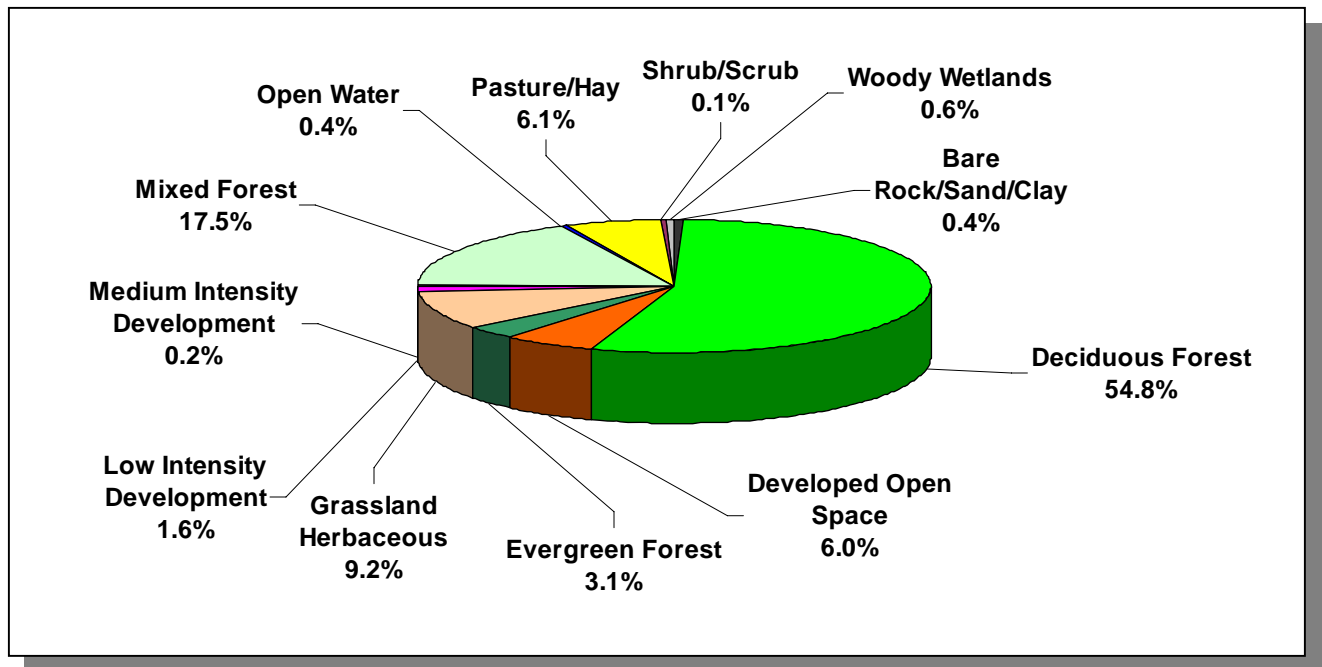


Figure 4-103. Land Use Distribution in Subwatershed 051301040205. More information is provided in Appendix IV.

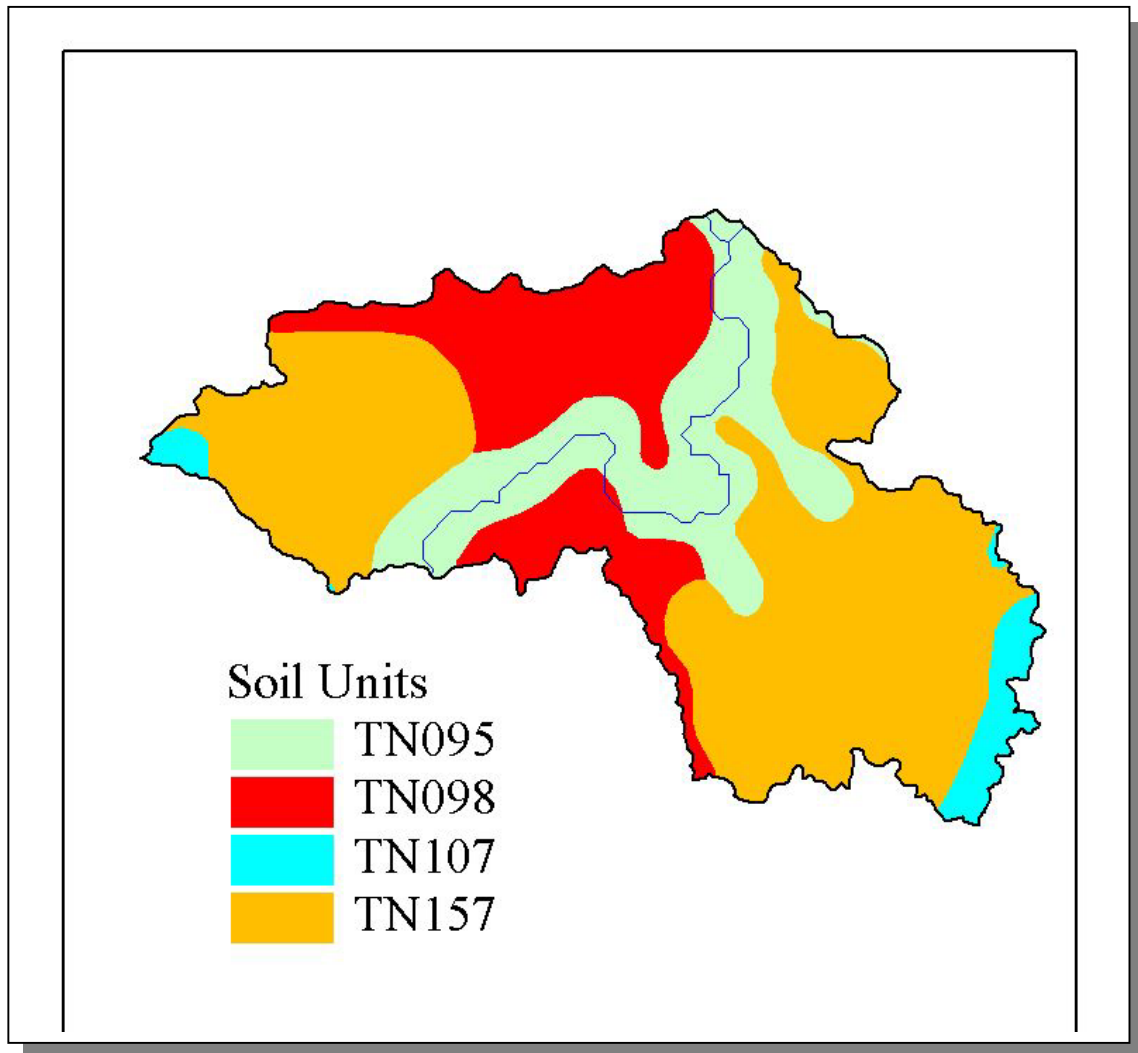


Figure 4-104. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040205.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-76. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040205. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)
Fentress	14,669	15,920	16,625	1.75	257	279	292	13.6
Scott	18,358	19,816	21,127	4.06	745	804	857	15.0
Total	33,027	35,736	37,752		1,002	1,083	1,149	14.7

Table 4-77. Population Estimates in Subwatershed 051301040205.



Figure 4-105. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040205. More information is provided in Appendix IV.

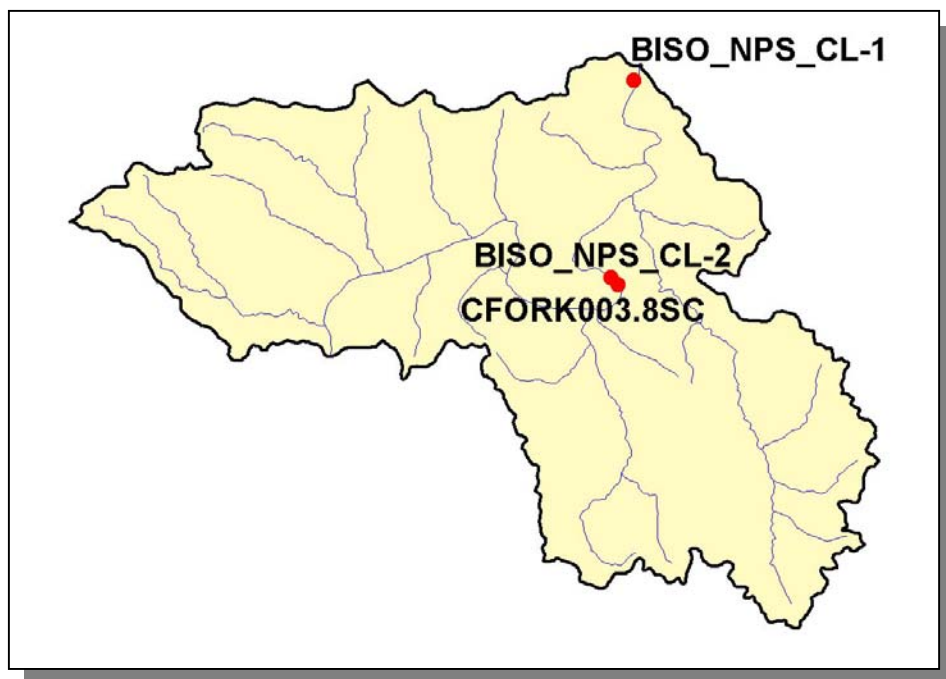


Figure 4-106. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040205. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.v.a. Point Source Contributions.

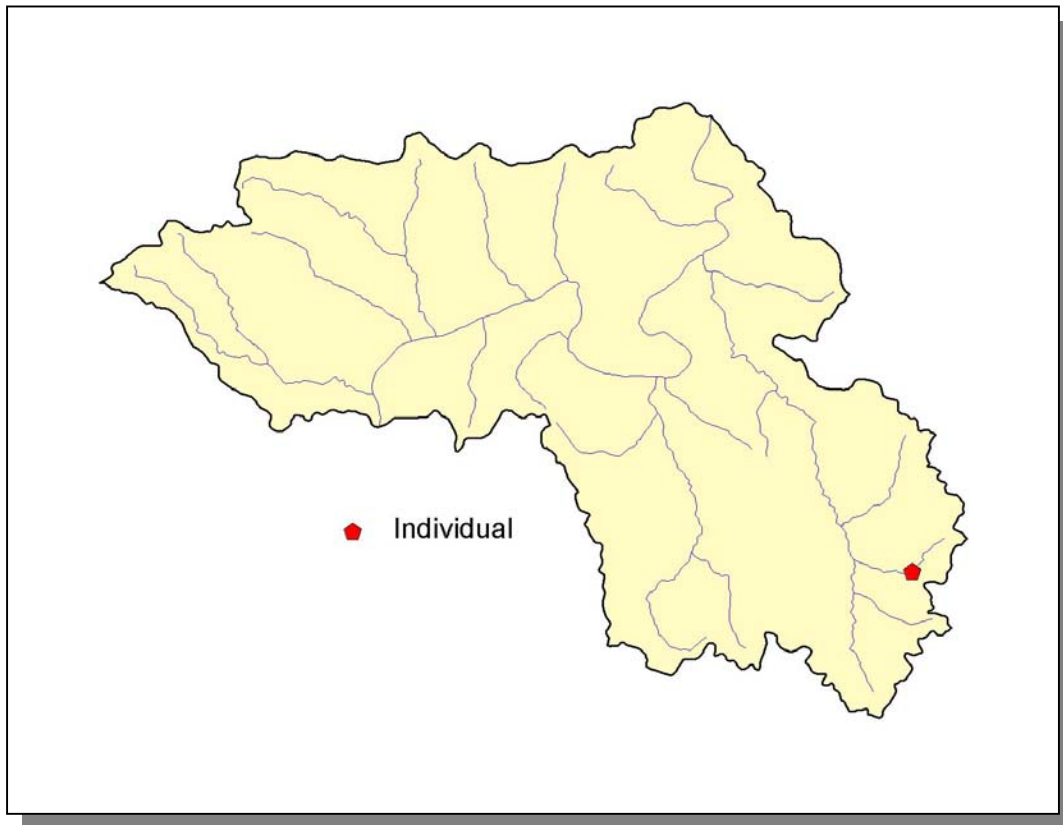


Figure 4-107. Location of Permits Issued in Subwatershed 051301040205. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-108. Location of Active NPDES Sites in Subwatershed 051301040205. More information, including the names of facilities, is provided in Appendix IV.

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4.2.B.v.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
173	360	14	<5	157,730	7	<5

Table 4-78. Summary of Livestock Count Estimates in Subwatershed 051301040205.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-79. Summary of Livestock Count Estimates in Fentress and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Scott	300.3	300.3	5.5	21.4

Table 4-80. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.44
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.49
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.4
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.18

Table 4-81. Annual Estimated Total Soil Loss in Subwatershed 051301040205.

4.2.C. 0513010403.

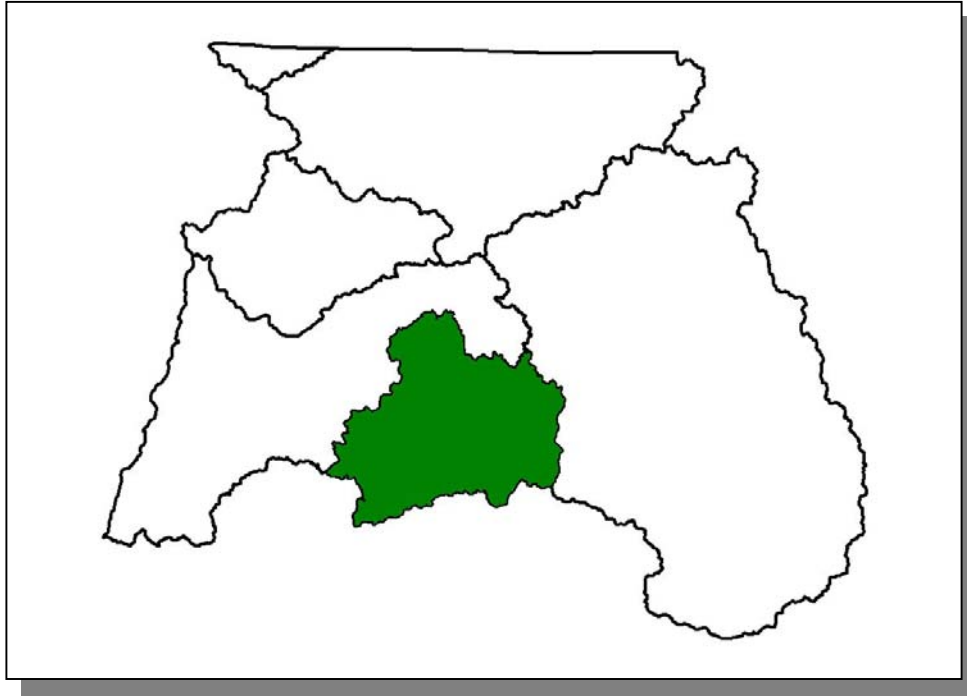


Figure 4-109. Location of Subwatershed 0513010403. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.3.C.i. 051301040301 (Upper Whiteoak Creek).

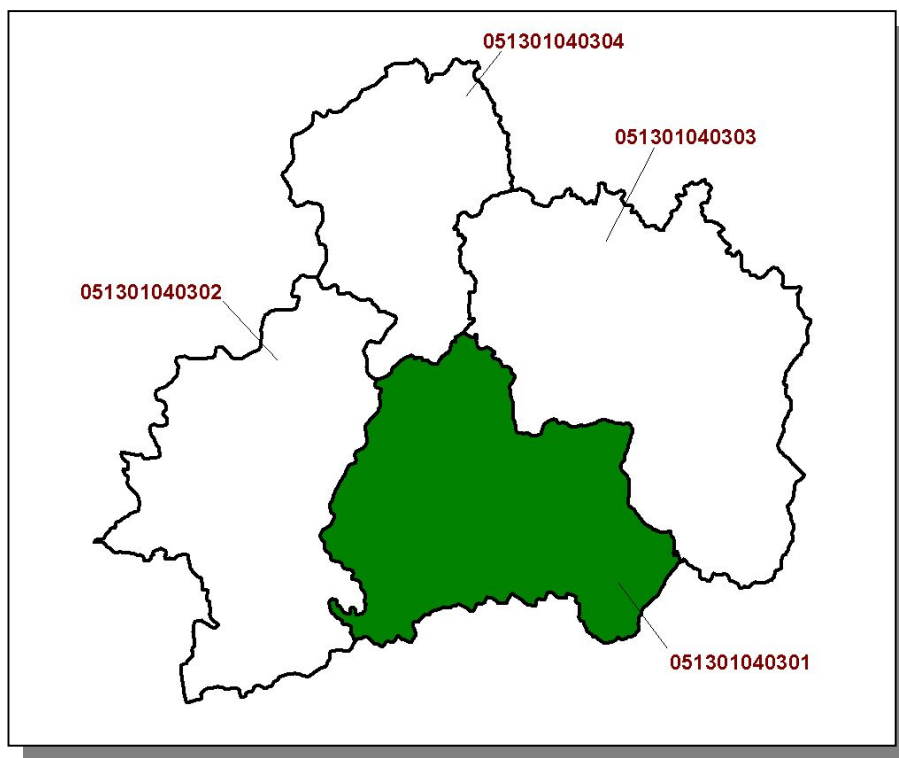


Figure 4-110. Location of Subwatershed 051301040301. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

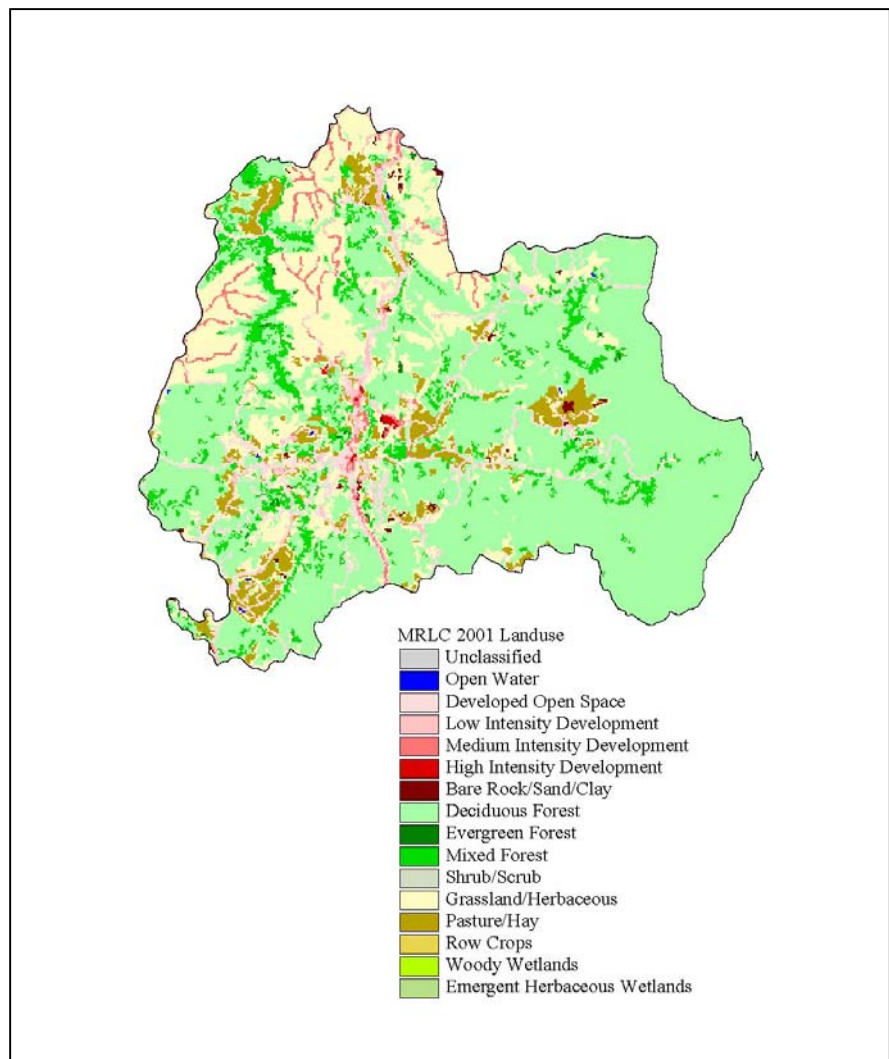


Figure 4-111. Illustration of Land Use Distribution in Subwatershed 051301040301.

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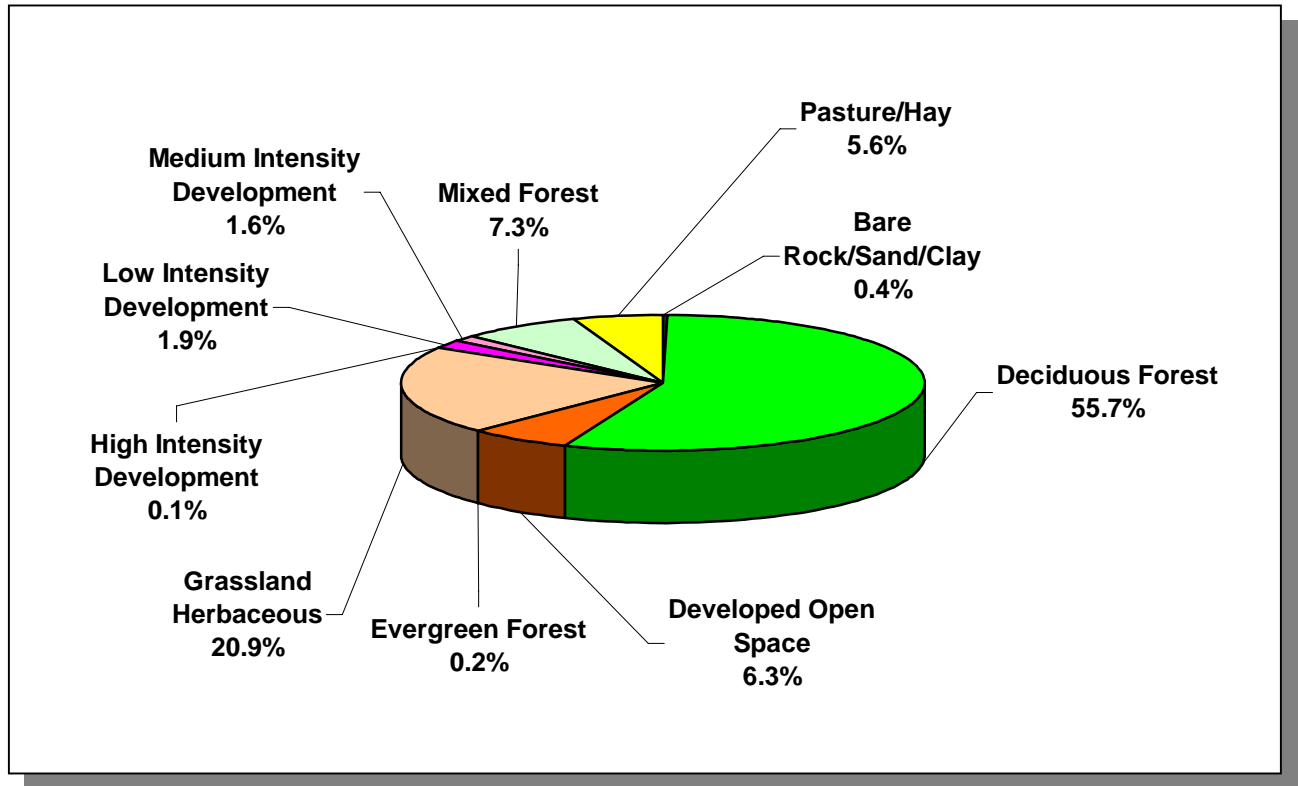


Figure 4-112. Land Use Distribution in Subwatershed 051301040301. More information is provided in Appendix IV.

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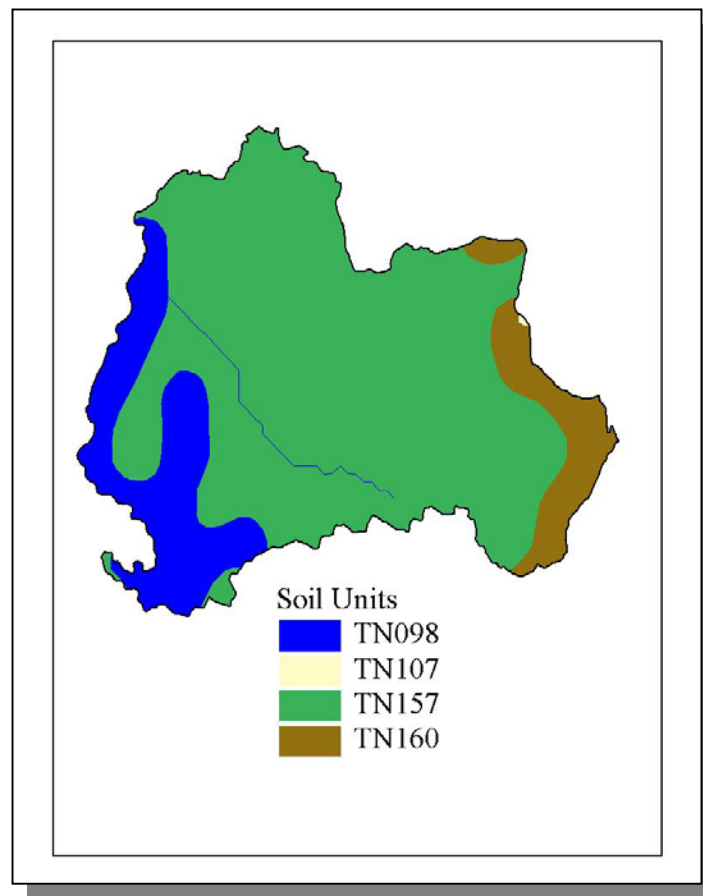


Figure 4-113. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040301.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-82. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040301. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)
Morgan	17,300	18,521	19,757	5.06	876	938	1,000	14.2

Table 4-83. Population Estimates in Subwatershed 051301040301.

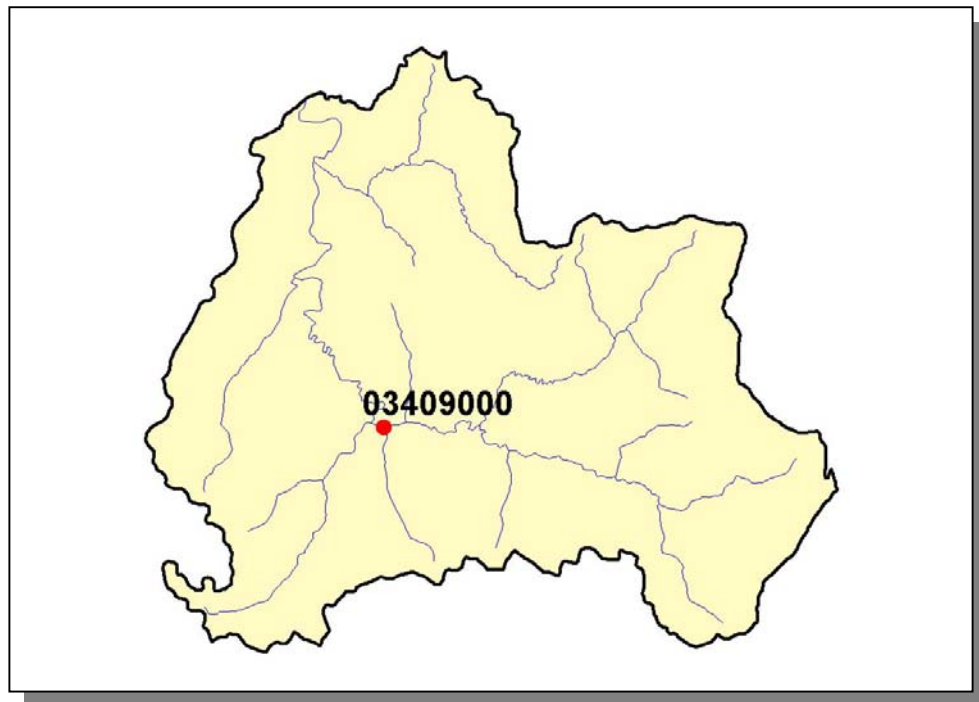


Figure 4-114. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040301. More information is provided in Appendix IV.

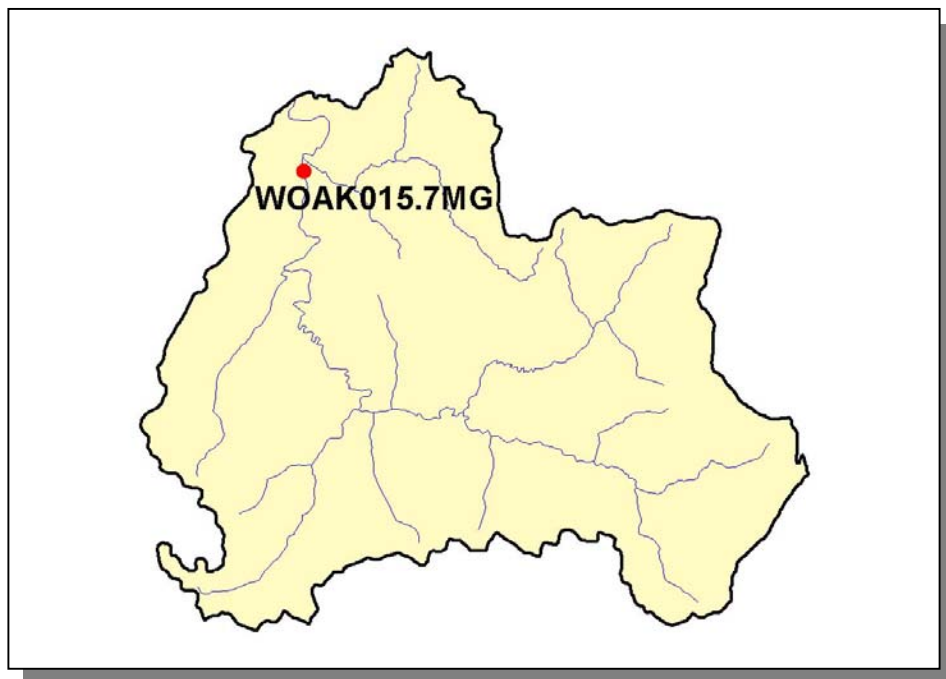


Figure 4-115. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040301. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.C.i.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.C.i.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
225	423	12	<5	71,795	4	<5

Table 4-84. Summary of Livestock Count Estimates in Subwatershed 051301040301.

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Morgan	4,697	8,853	251	1,501,559	194	83	35

Table 4-85. Summary of Livestock Count Estimates in Morgan County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Morgan	287.8	276.2	3.5	10.9

Table 4-86. Forest Acreage and Annual Removal Rates (1987-1994) in Morgan County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.42
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.11
Corn (Row Crops)	7.18
Farmsteads and Ranch Headquarters	0.04

Table 4-87. Annual Estimated Total Soil Loss in Subwatershed 051301040301.

4.3.C.ii. 051301040302 (Camp Creek).

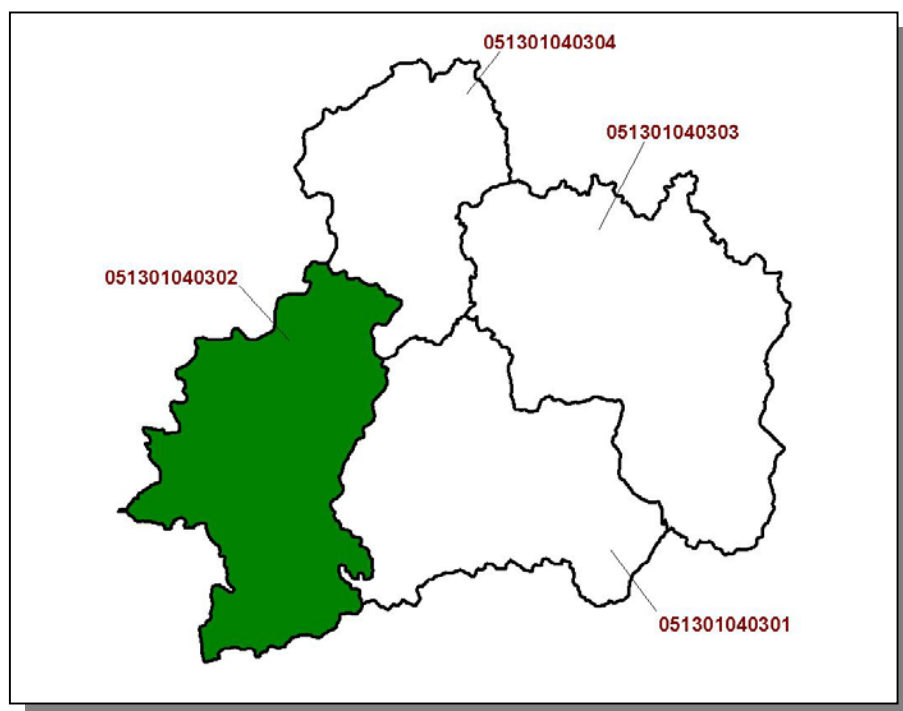


Figure 4-116. Location of Subwatershed 051301040302. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

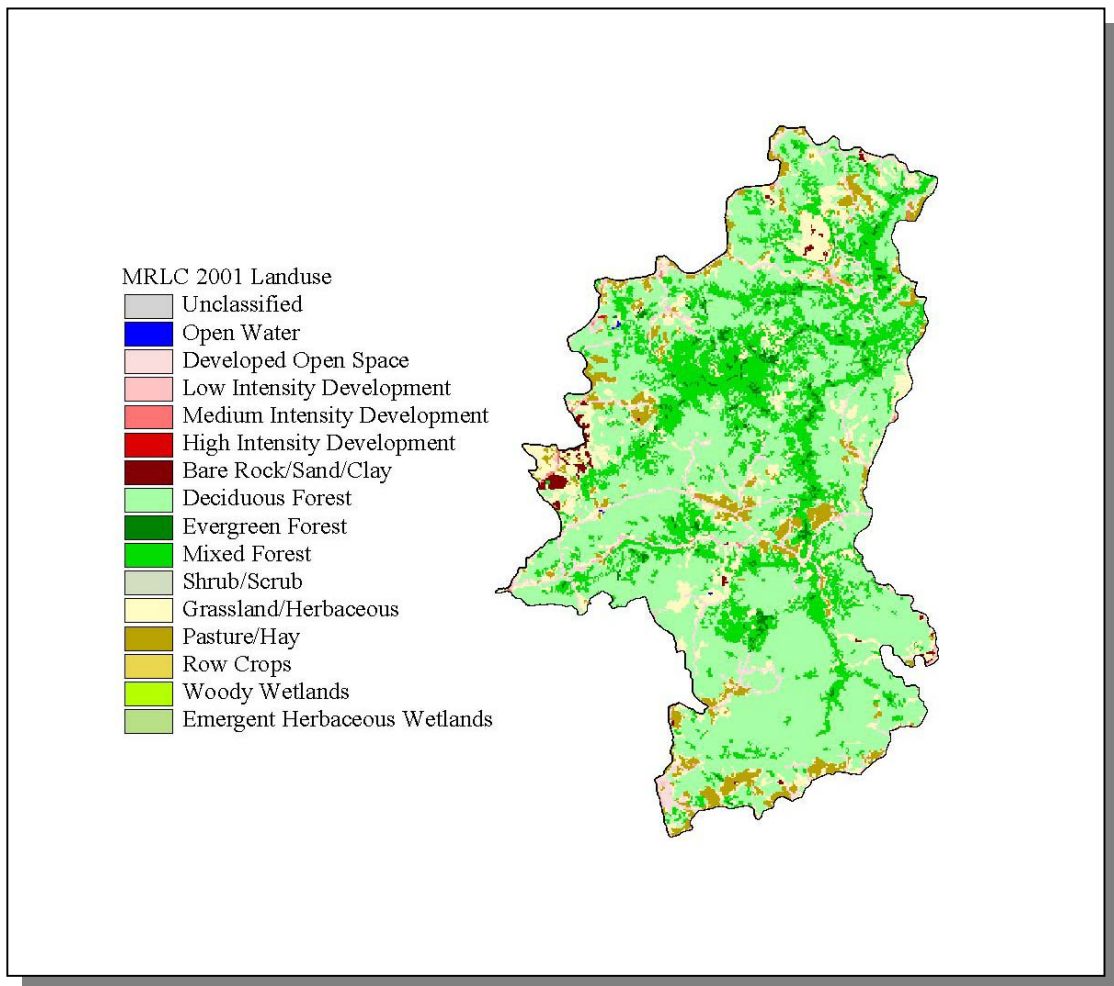


Figure 4-117. Illustration of Land Use Distribution in Subwatershed 051301040302.

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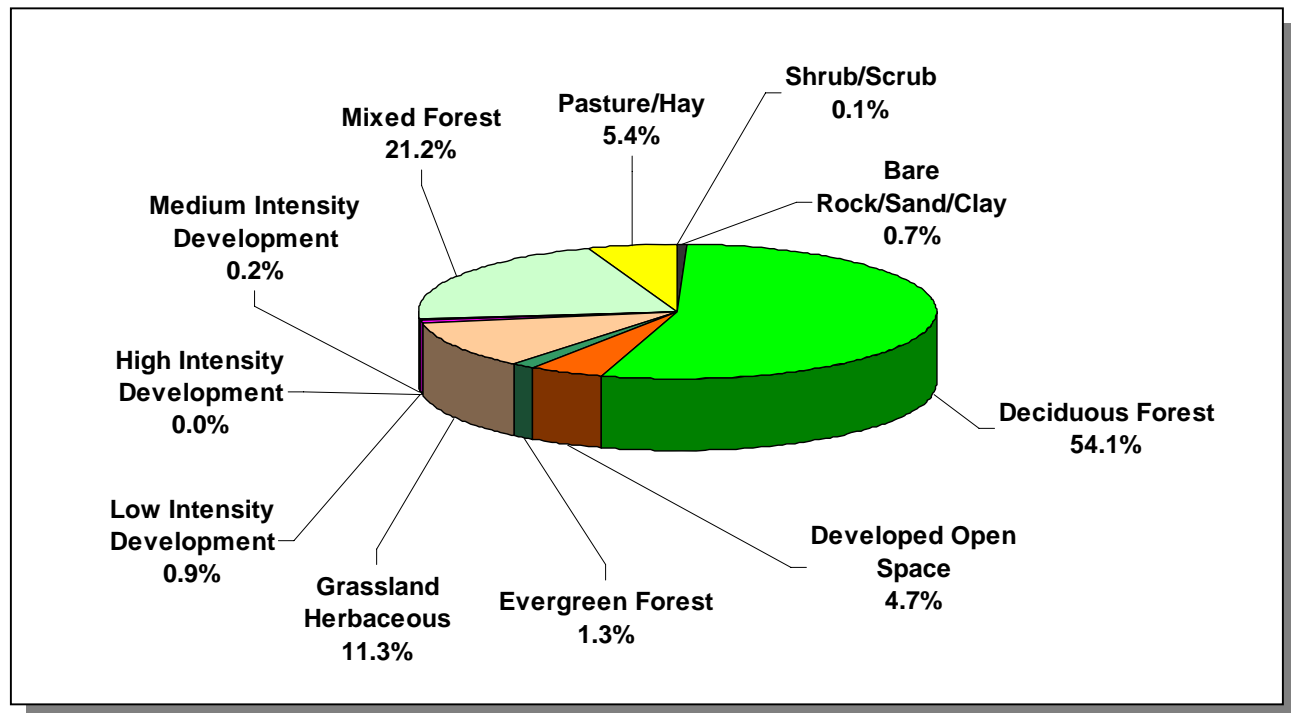


Figure 4-118. Land Use Distribution in Subwatershed 051301040302. More information is provided in Appendix IV.

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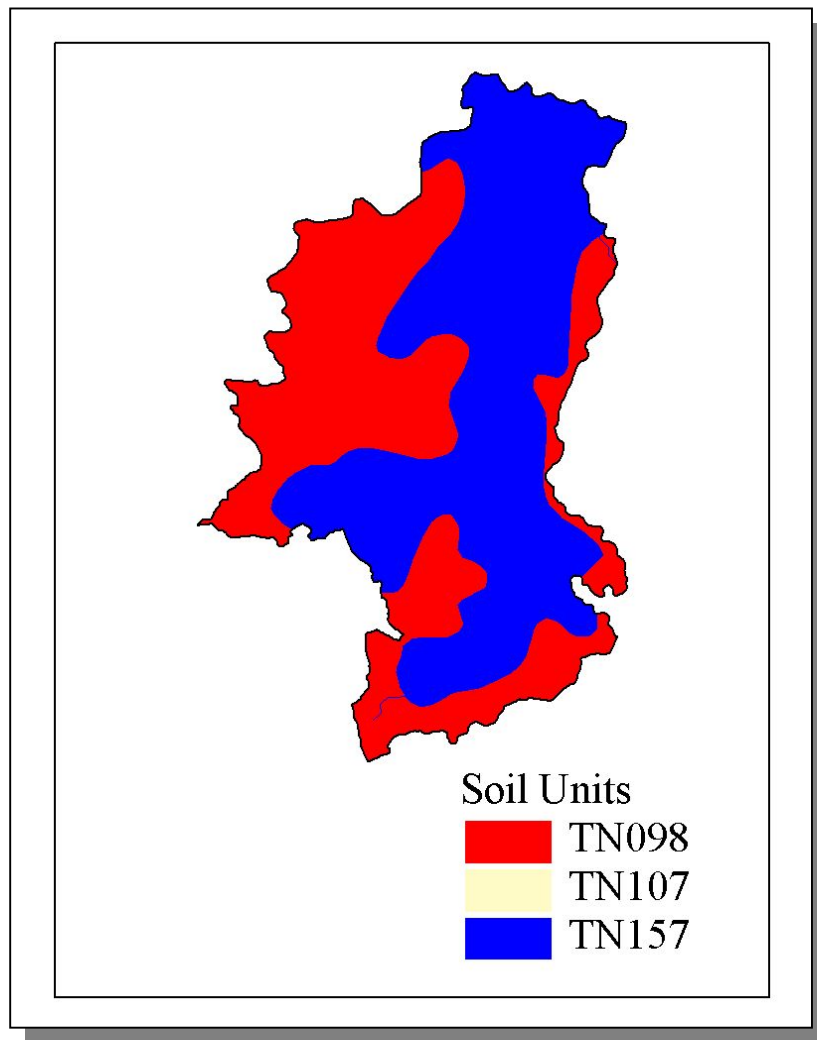


Figure 4-119. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040302.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-88. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040302. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Morgan	17,300	18,521	19,757	5.1	883	945	1,008	14.2

Table 4-89. Population Estimates in Subwatershed 051301040302.

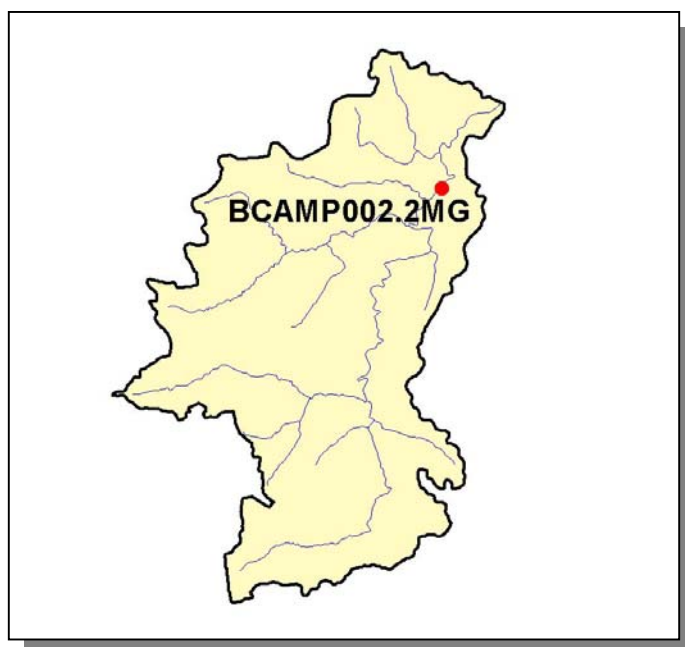


Figure 4-120. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040302. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.C.ii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.C.ii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
265	500	14	<5	84,750	5	<5

Table 4-90. Summary of Livestock Count Estimates in Subwatershed 051301040302.

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Morgan	4,697	8,853	251	1,501,559	194	83	35

Table 4-91. Summary of Livestock Count Estimates in Morgan County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Morgan	287.8	276.2	3.5	10.9

Table 4-92. Forest Acreage and Annual Removal Rates (1987-1994) in Morgan County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.42
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.11
Corn (Row Crops)	7.18
Farmsteads and Ranch Headquarters	0.04

Table 4-93. Annual Estimated Total Soil Loss in Subwatershed 051301040302.

4.3.C.iii. 051301040303 (Black Wolf Creek).

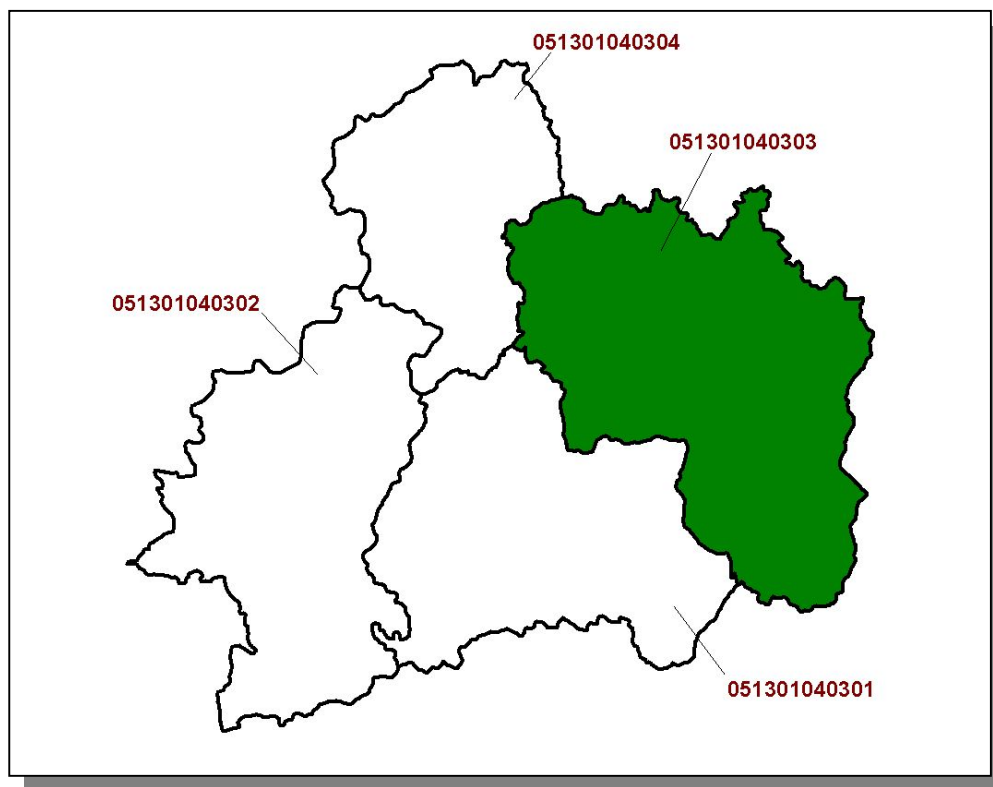


Figure 4-121. Location of Subwatershed 051301040303. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

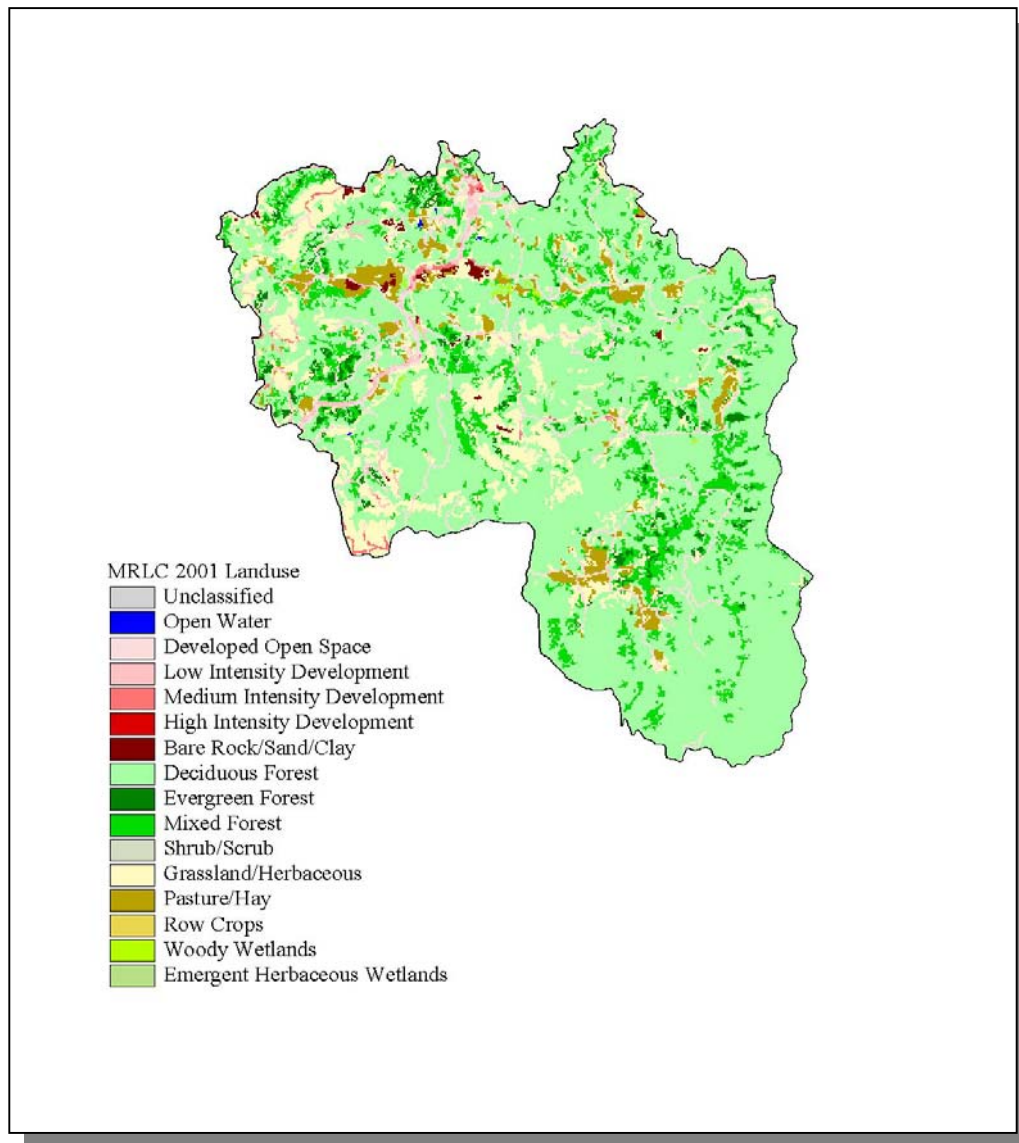


Figure 4-122. Illustration of Land Use Distribution in Subwatershed 051301040303.

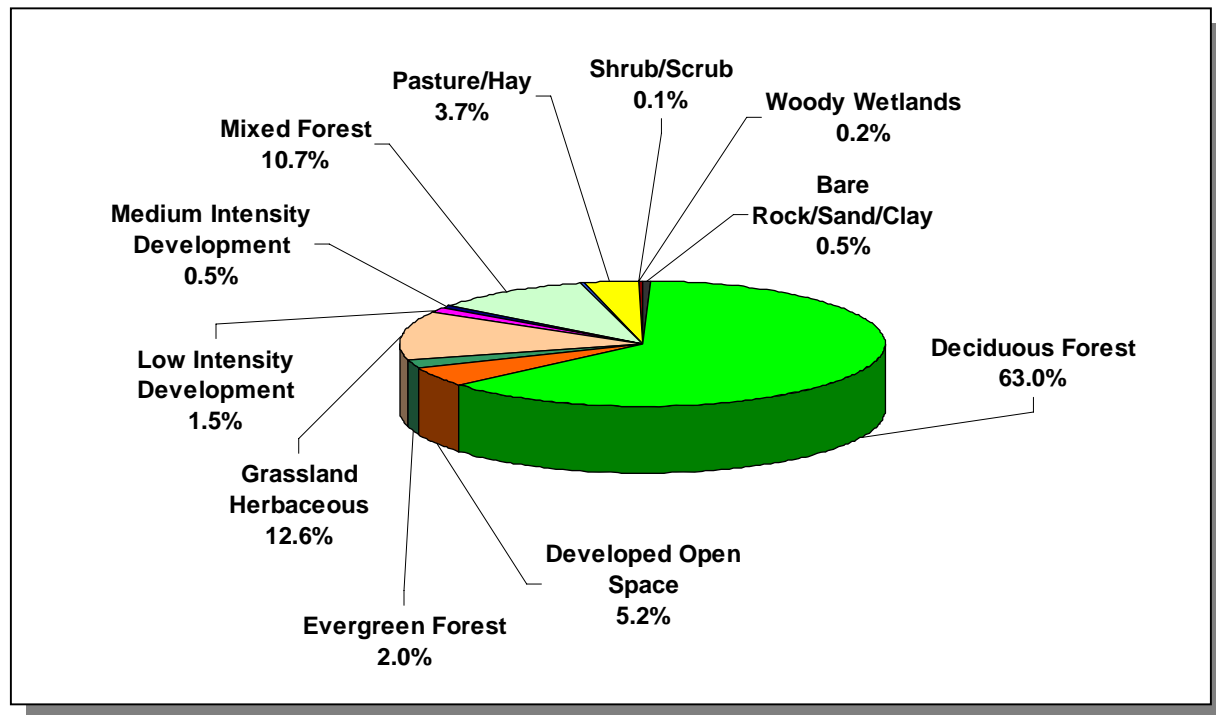


Figure 4-123. Land Use Distribution in Subwatershed 051301040303. More information is provided in Appendix IV.

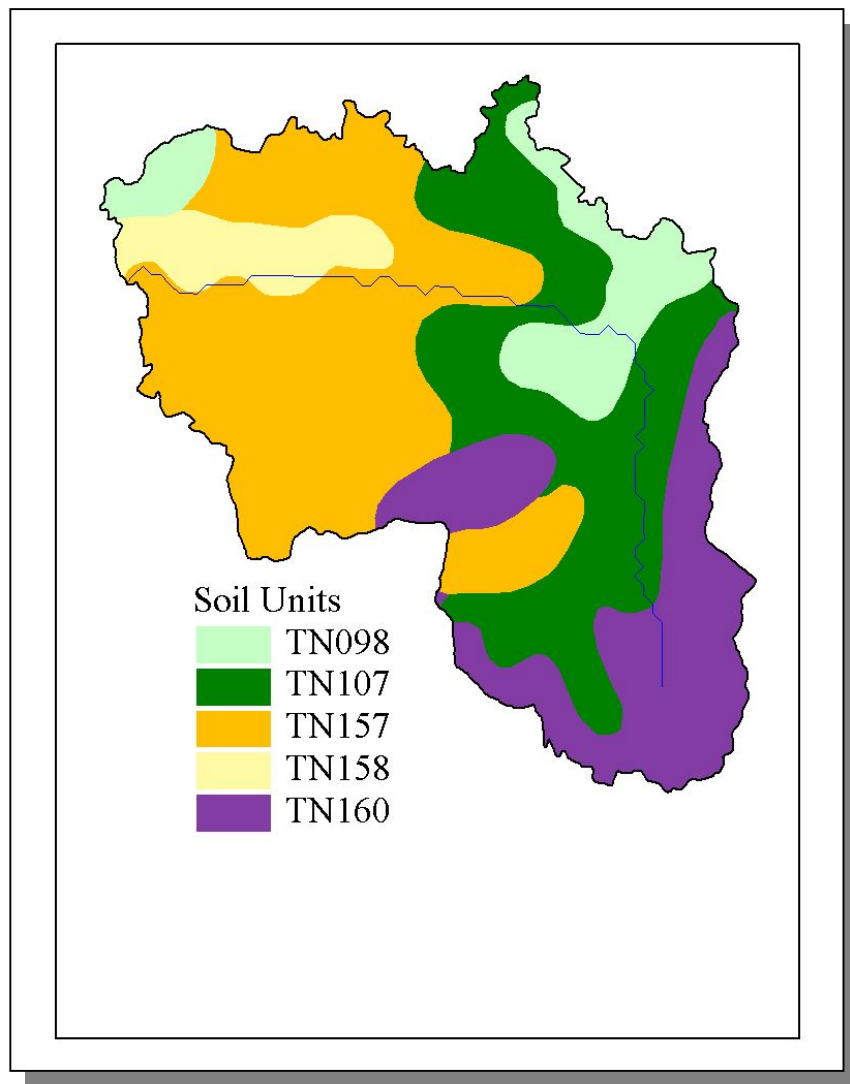


Figure 4-124. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040303.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28
TN158	22.00	C	1.89	5.14	Silty Loam	0.29
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-94. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040303. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Morgan	17,300	18,521	19,757	2.14	370	396	423	14.3
Scott	18,358	19,816	21,127	4.18	767	828	883	15.1
Total	35,658	38,337	40,884		1,137	1,224	1,306	14.9

Table 4-95. Population Estimates in Subwatershed 051301040303.

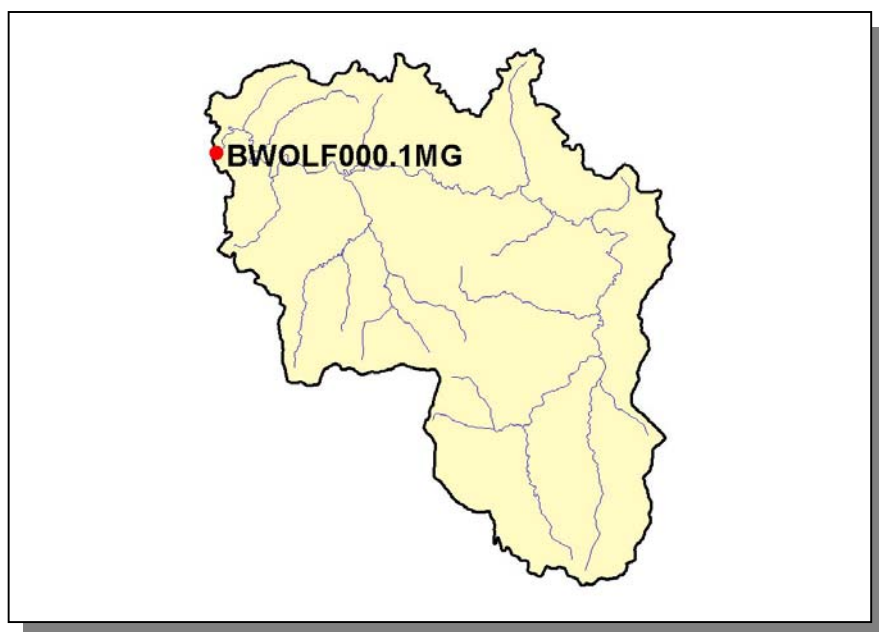


Figure 4-125. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040303. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.C.iii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.C.iii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
184	359	14	<5	106,571	<5	4

Table 4-96. Summary of Livestock Count Estimates in Subwatershed 051301040303.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-97. Summary of Livestock Count Estimates in Morgan and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-98. Forest Acreage and Annual Removal Rates (1987-1994) in Morgan and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.36
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.43
Corn (Row Crops)	7.18
Farmsteads and Ranch Headquarters	0.07

Table 4-99. Annual Estimated Total Soil Loss in Subwatershed 051301040303.

4.3.C.iv. 051301040304 (Lower Whiteoak Creek).

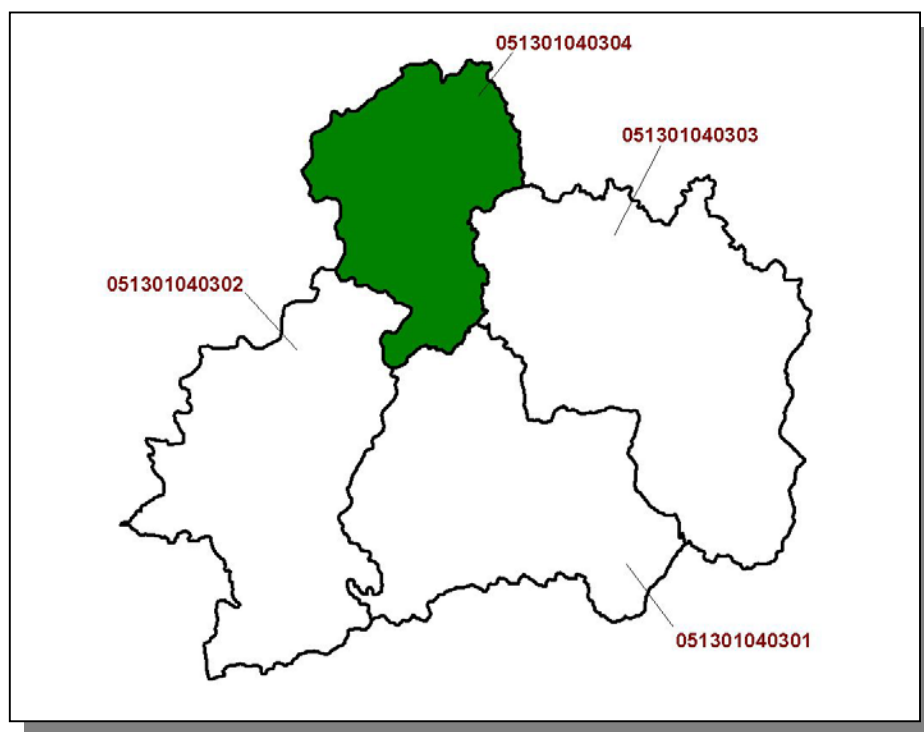


Figure 4-126. Location of Subwatershed 051301040304. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

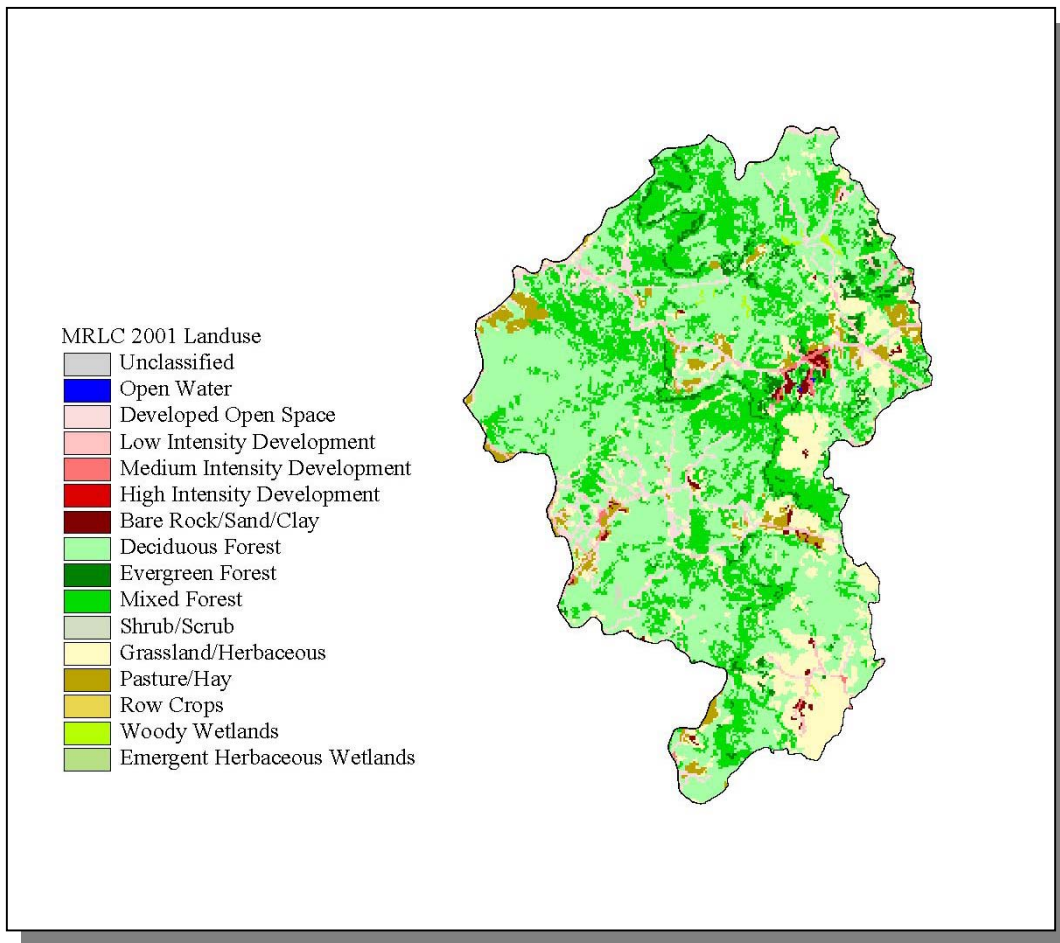


Figure 4-127. Illustration of Land Use Distribution in Subwatershed 051301040304.

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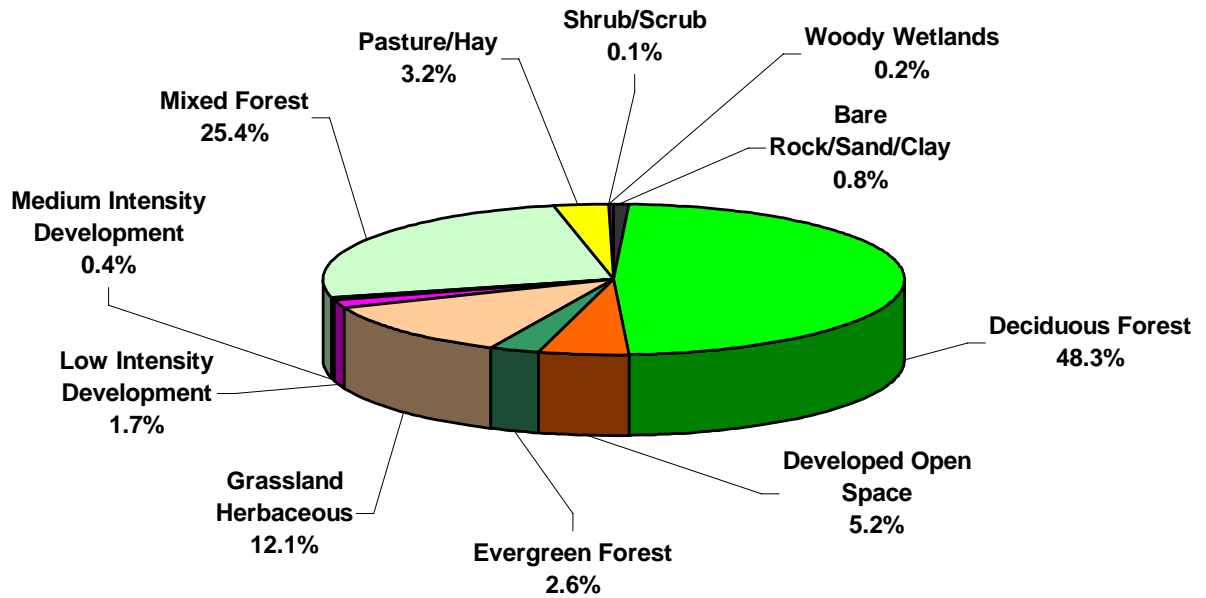


Figure 4-128. Land Use Distribution in Subwatershed 051301040304. More information is provided in Appendix IV.

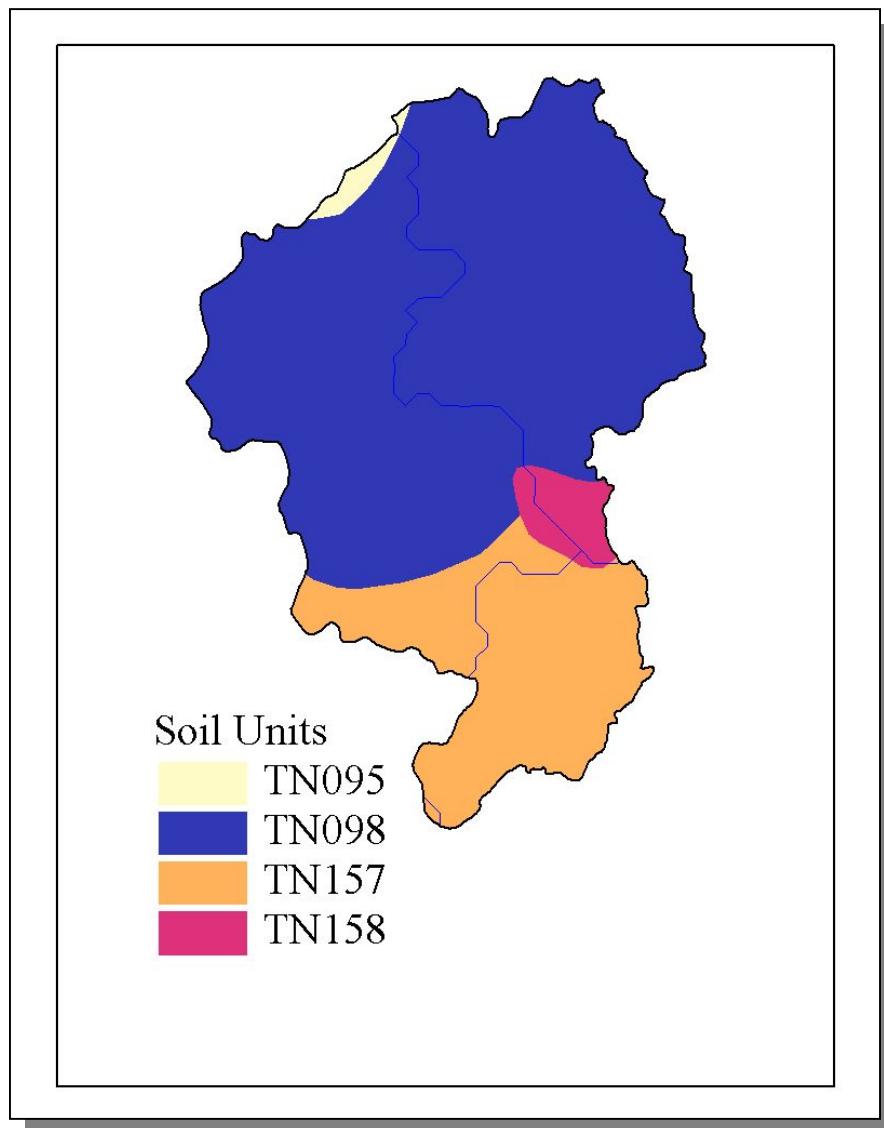


Figure 4-129. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040304.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN157	0.00	B	2.38	4.62	Loam	0.28
TN158	22.00	C	1.89	5.14	Silty Loam	0.29

Table 4-100. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040304. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)
Morgan	17,300	18,521	19,757	2.35	406	435	464	14.3
Scott	18,358	19,816	21,127	0.88	161	174	185	14.9
Total	35,658	38,337	40,884		567	609	649	14.5

Table 4-101. Population Estimates in Subwatershed 051301040304.

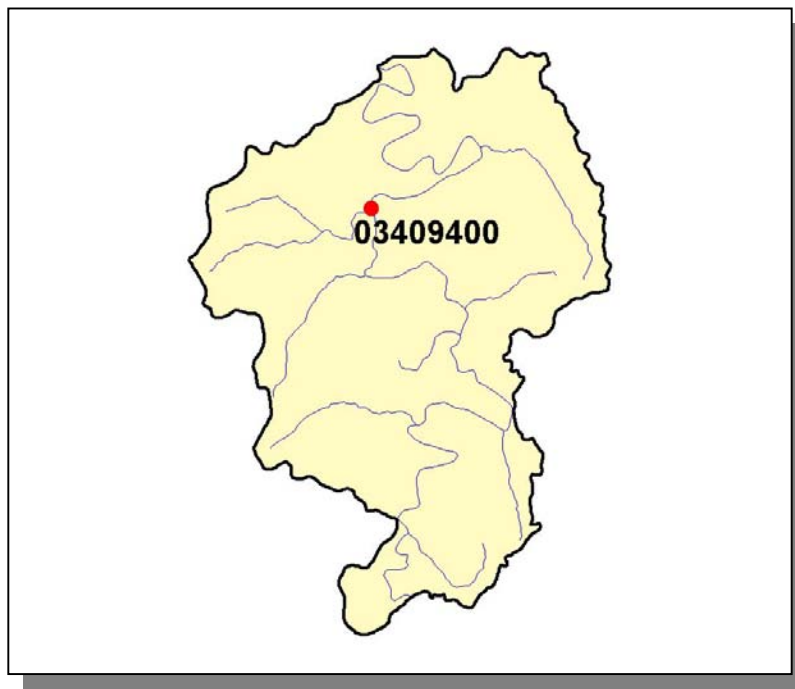


Figure 4-130. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040304. More information is provided in Appendix IV.

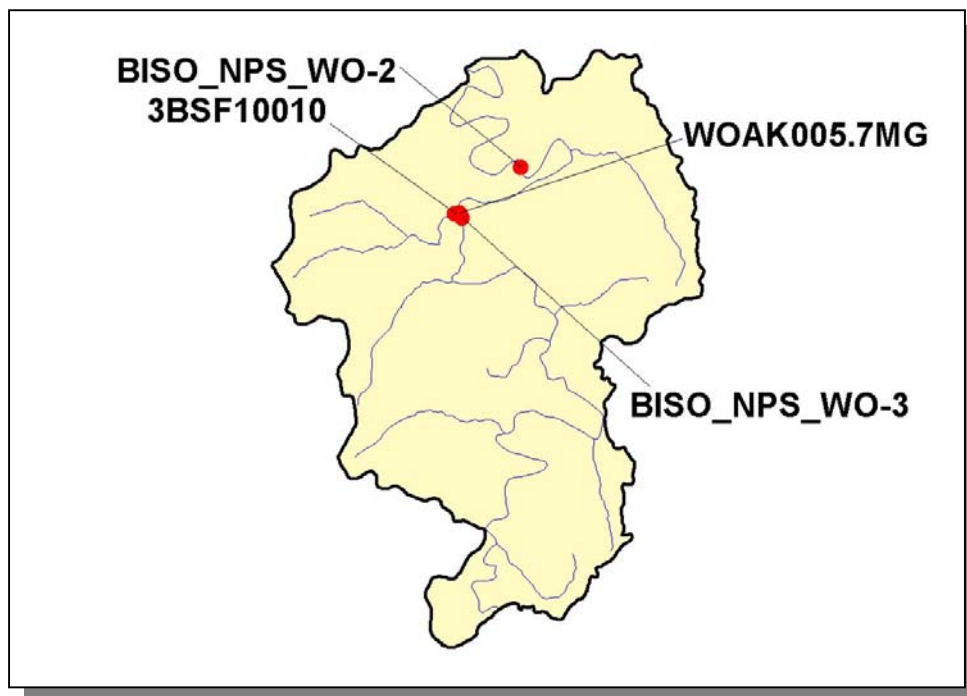


Figure 4-131. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040304. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.C.iv.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.C.iv.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs	Sheep
143	273	9	59,300	<5	<5

Table 4-102. Summary of Livestock Count Estimates in Subwatershed 051301040304. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-103. Summary of Livestock Count Estimates in Fentress, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

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County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-104. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Morgan, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.40
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.24
Corn (Row Crops)	7.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.05

Table 4-105. Annual Estimated Total Soil Loss in Subwatershed 051301040304.

4.2.D. 0513010404.

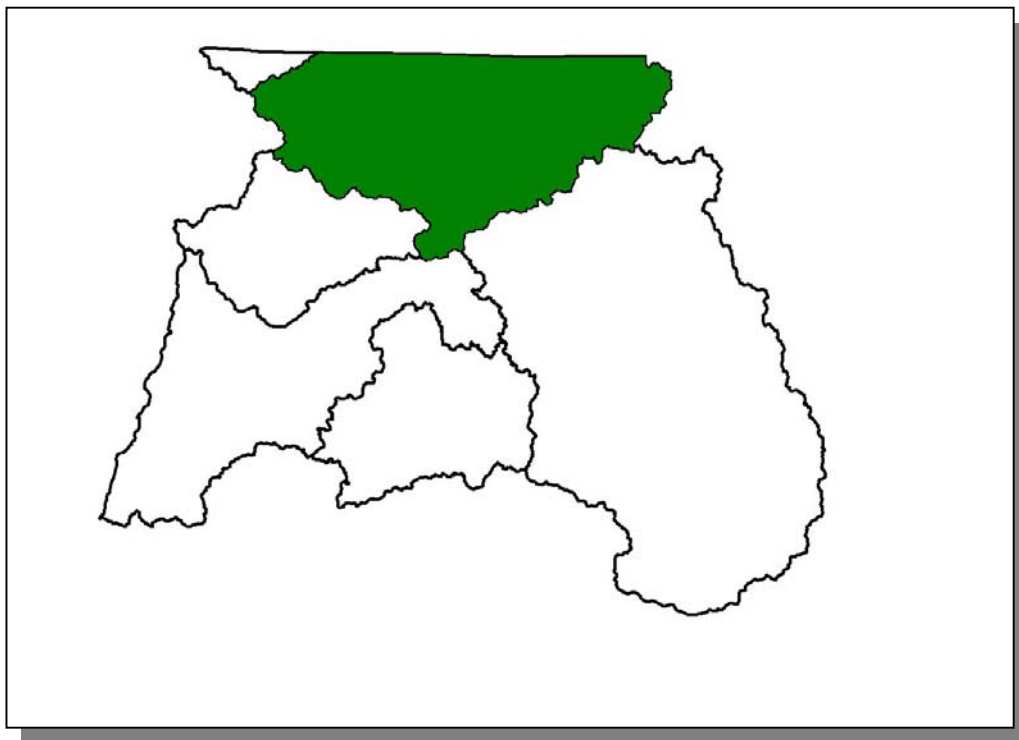


Figure 4-132. Location of Subwatershed 0513010404. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.3.D.i. 051301040401 (Big South Fork).

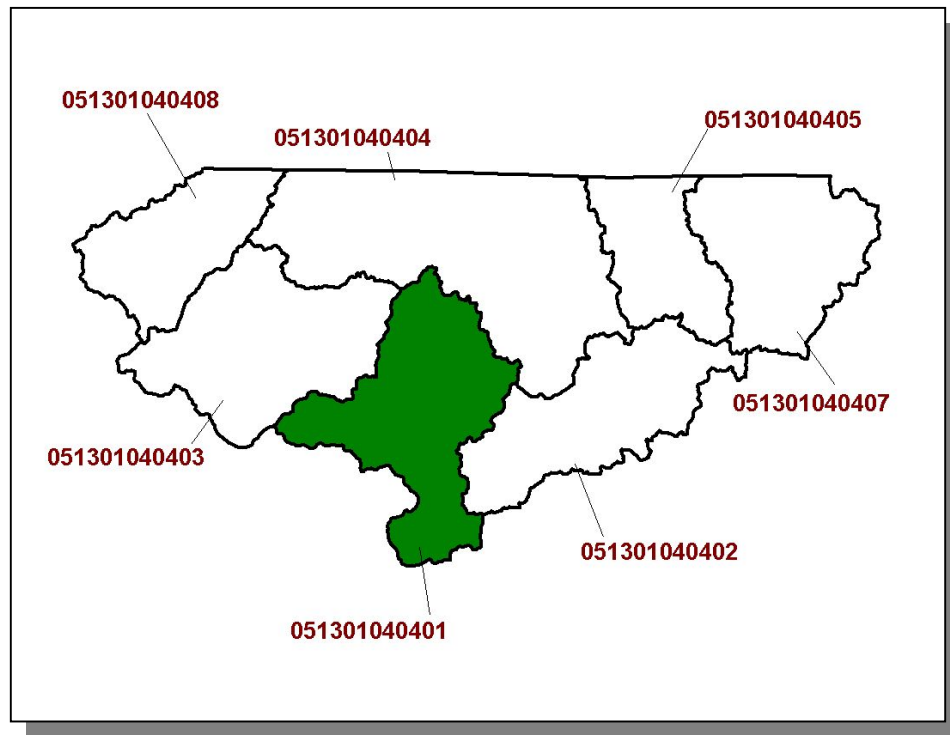


Figure 4-133. Location of Subwatershed 051301040401. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

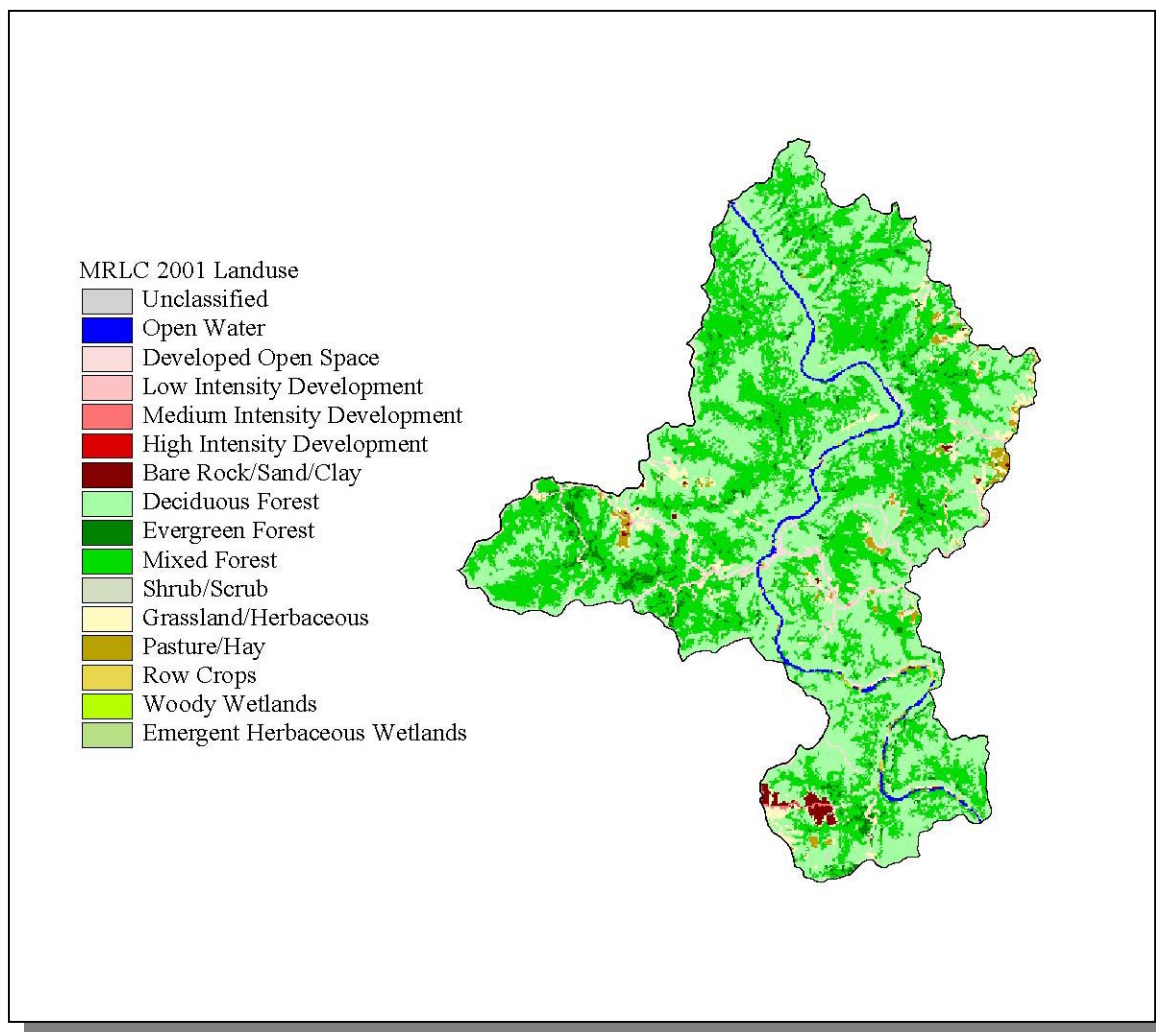


Figure 4-134. Illustration of Land Use Distribution in Subwatershed 051301040401.

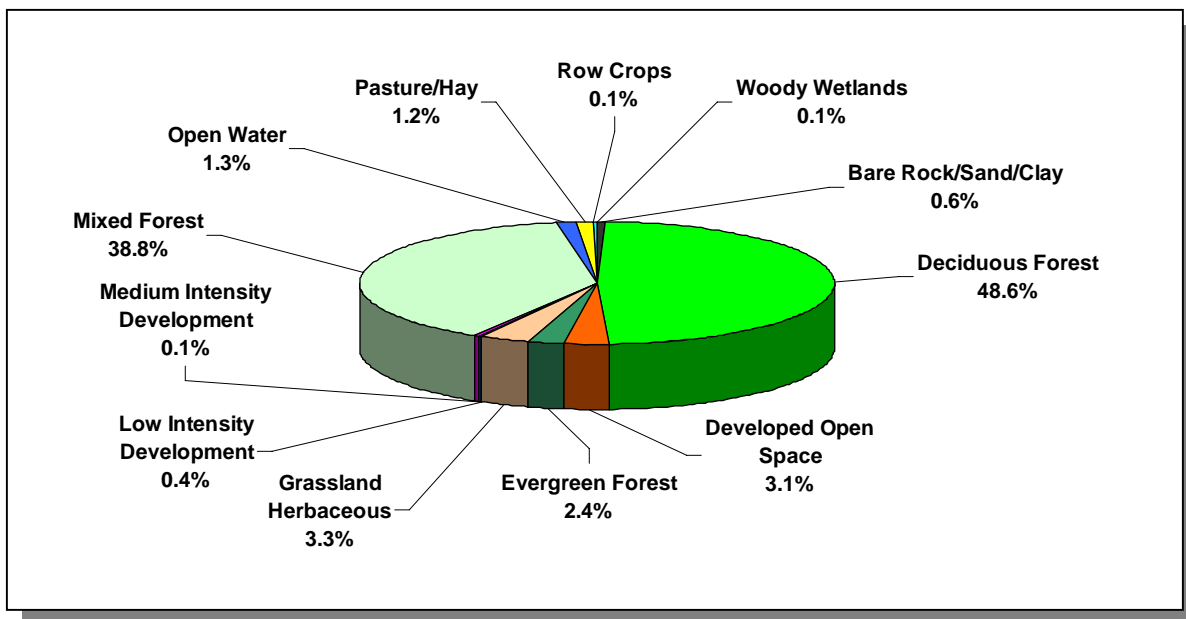


Figure 4-135. Land Use Distribution in Subwatershed 051301040401. More information is provided in Appendix IV.

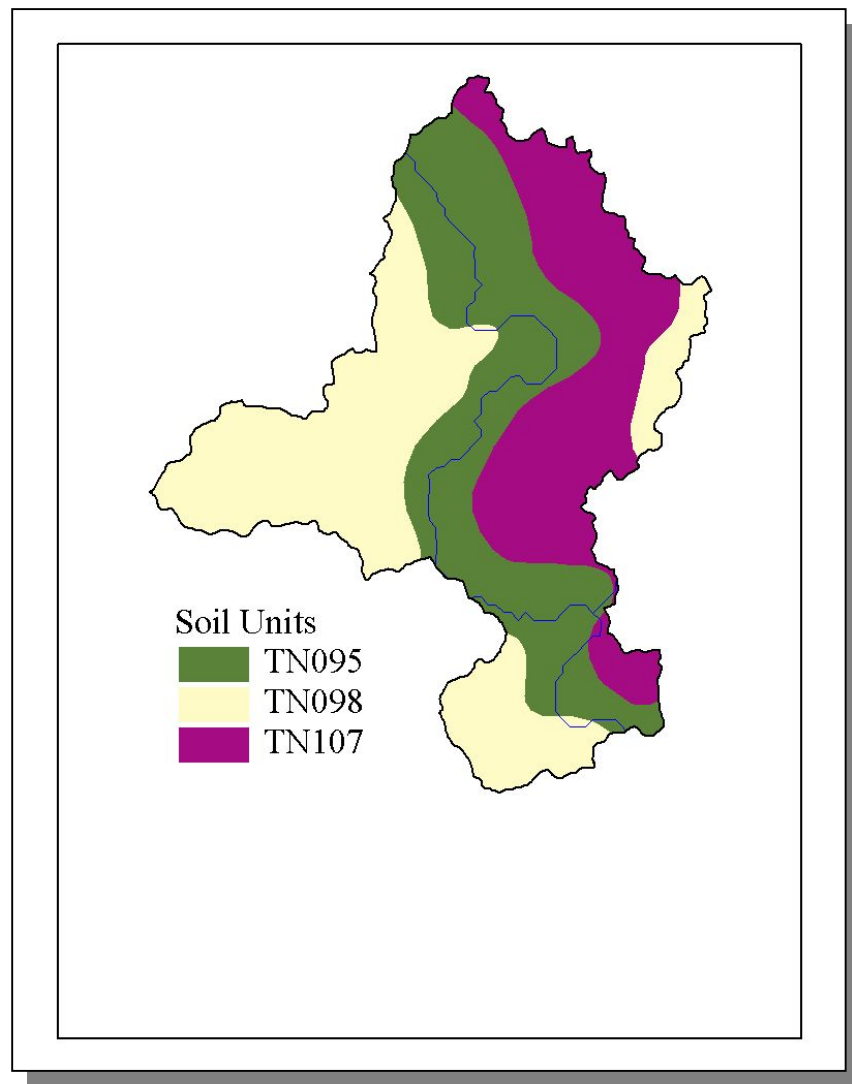


Figure 4-136. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040401.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-106. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040401. The definition of “Hydrologic Group” is provided in Appendix IV.

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	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)
Fentress	14,669	15,920	16,625	0.45	66	72	75	13.6
Scott	18,358	19,816	21,127	5.56	1,020	1,101	1,174	15.1
Total	33,027	35,736	37,752		1,086	1,173	1,249	15.0

Table 4-107. Population Estimates in Subwatershed 051301040401.



Figure 4-137. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040401. More information is provided in Appendix IV.

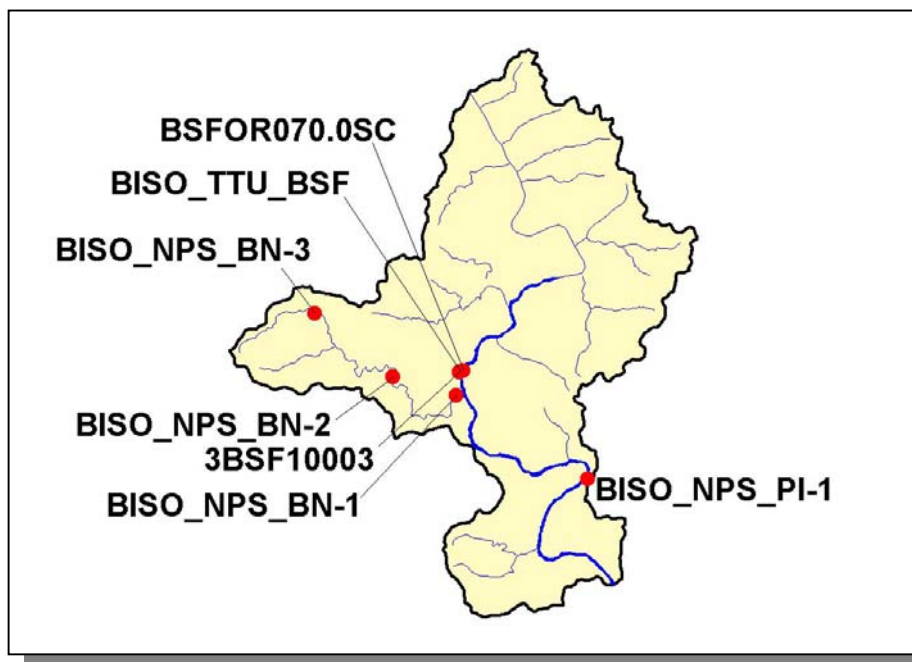


Figure 4-138. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040401. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.i.a. Point Source Contributions.

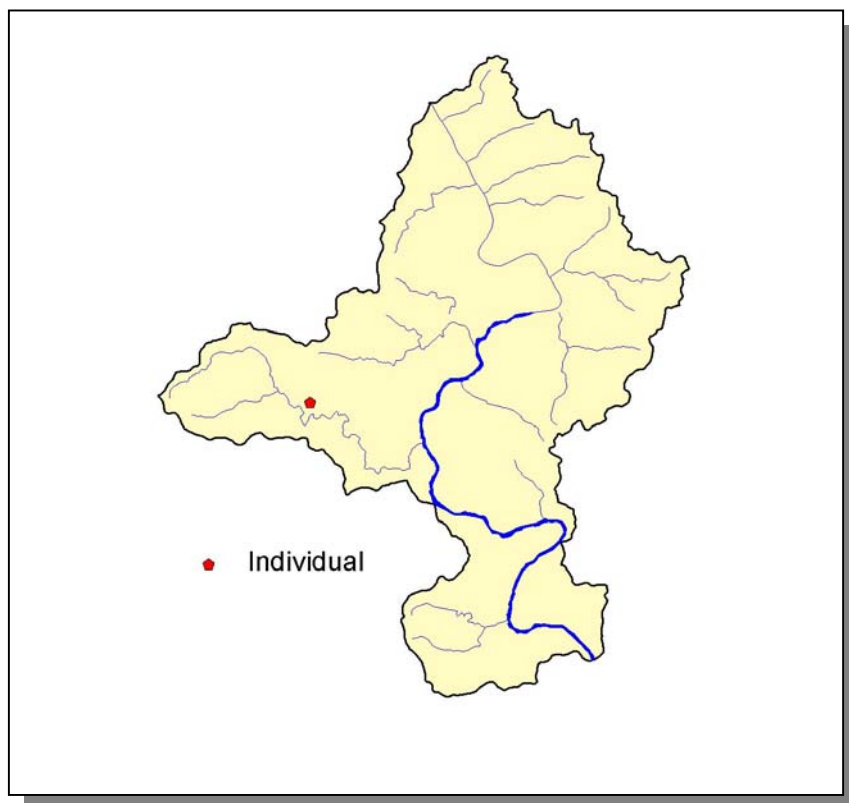


Figure 4-139. Location of Permits Issued in Subwatershed 051301040401. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-140. Location of Active NPDES Sites in Subwatershed 051301040401. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Sheep
45	93	<5	41,516	<5

Table 4-108. Summary of Livestock Count Estimates in Subwatershed 051301040401.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-109. Summary of Livestock Count Estimates in Fentress and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Scott	300.3	300.3	5.5	21.4

Table 4-110. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.35
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.56
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.11

Table 4-111. Annual Estimated Total Soil Loss in Subwatershed 0604000401.

4.3.D.ii. 051301040402 (Pine Creek).

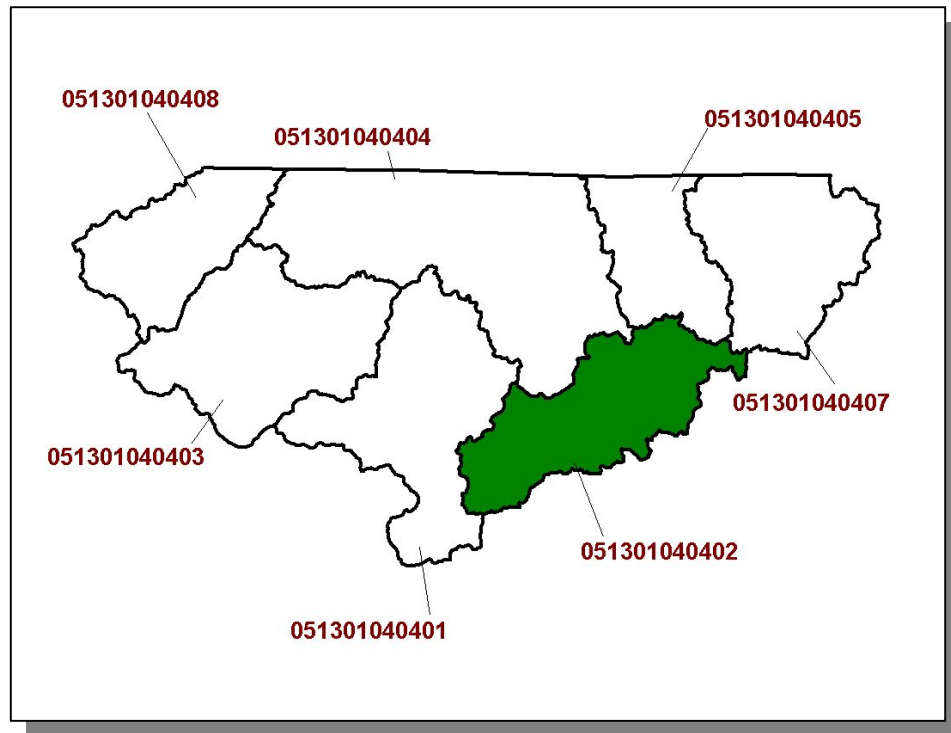


Figure 4-141. Location of Subwatershed 051301040402. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

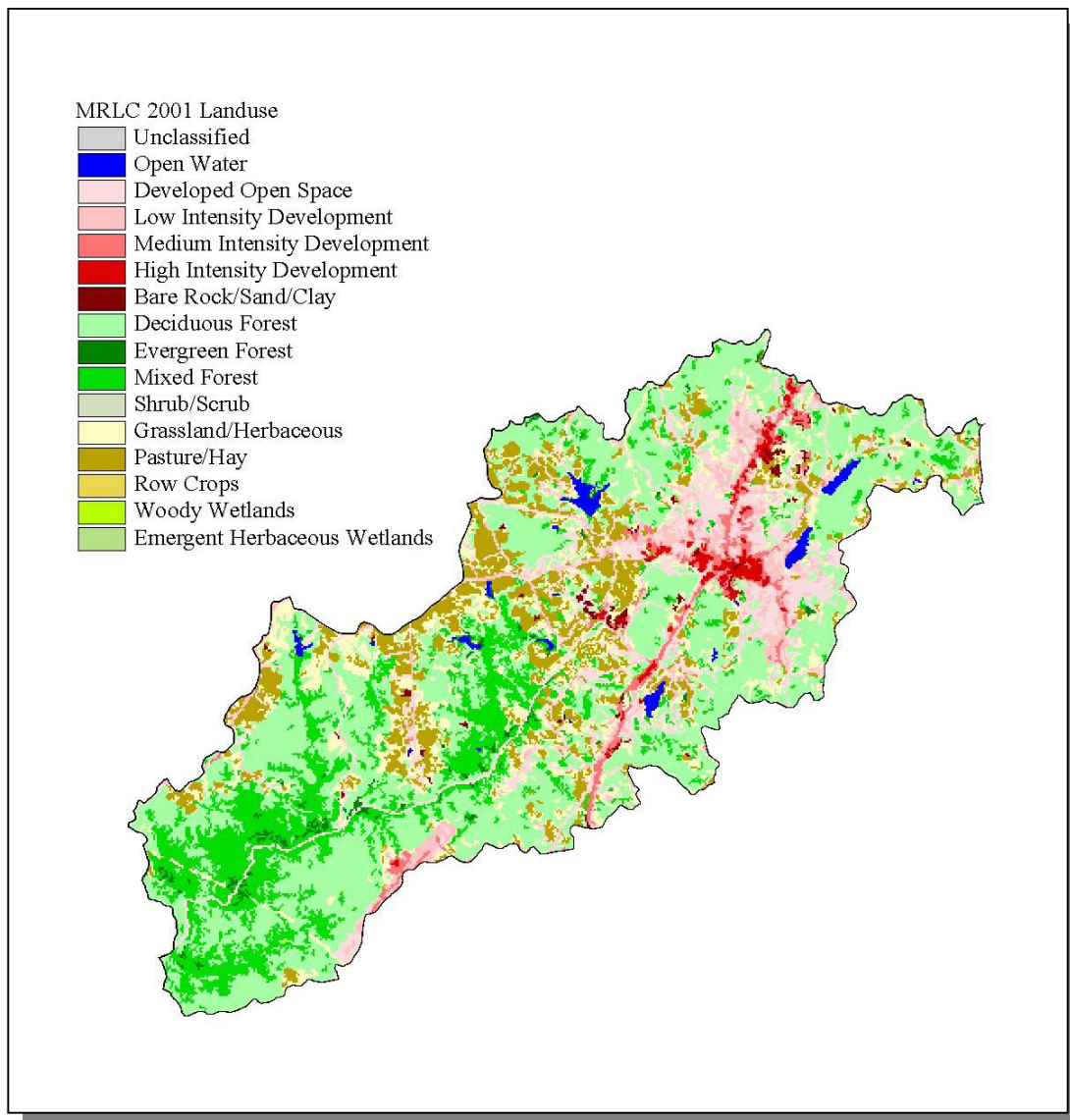


Figure 4-142. Illustration of Land Use Distribution in Subwatershed 051301040402.

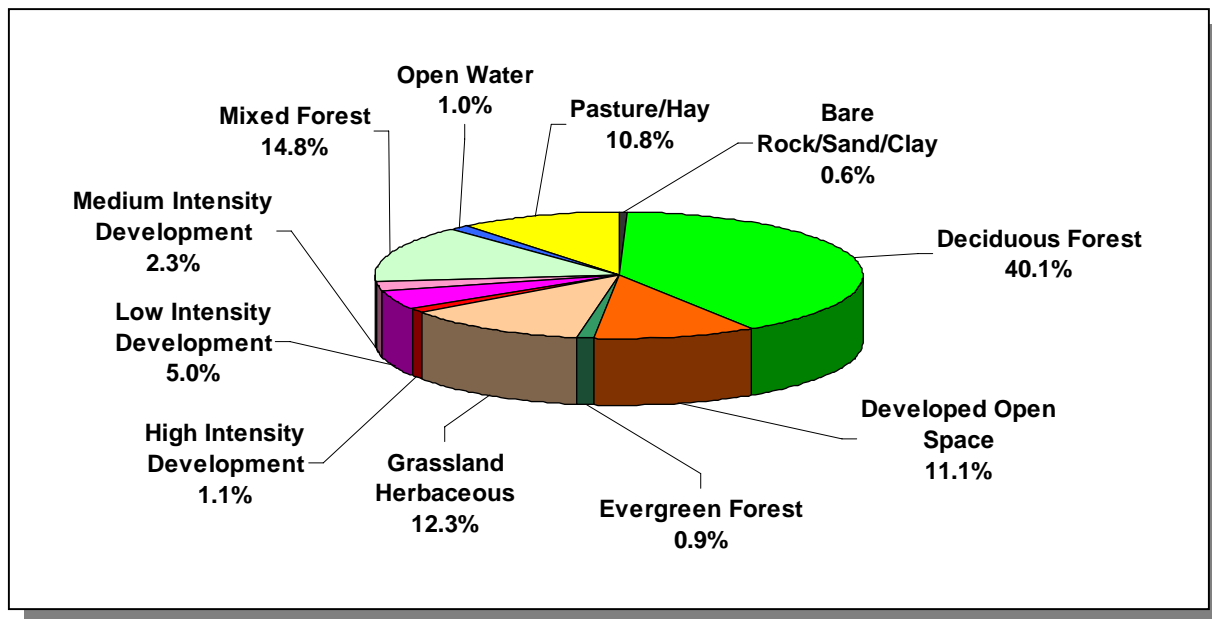


Figure 4-143. Land Use Distribution in Subwatershed 051301040402. More information is provided in Appendix IV.

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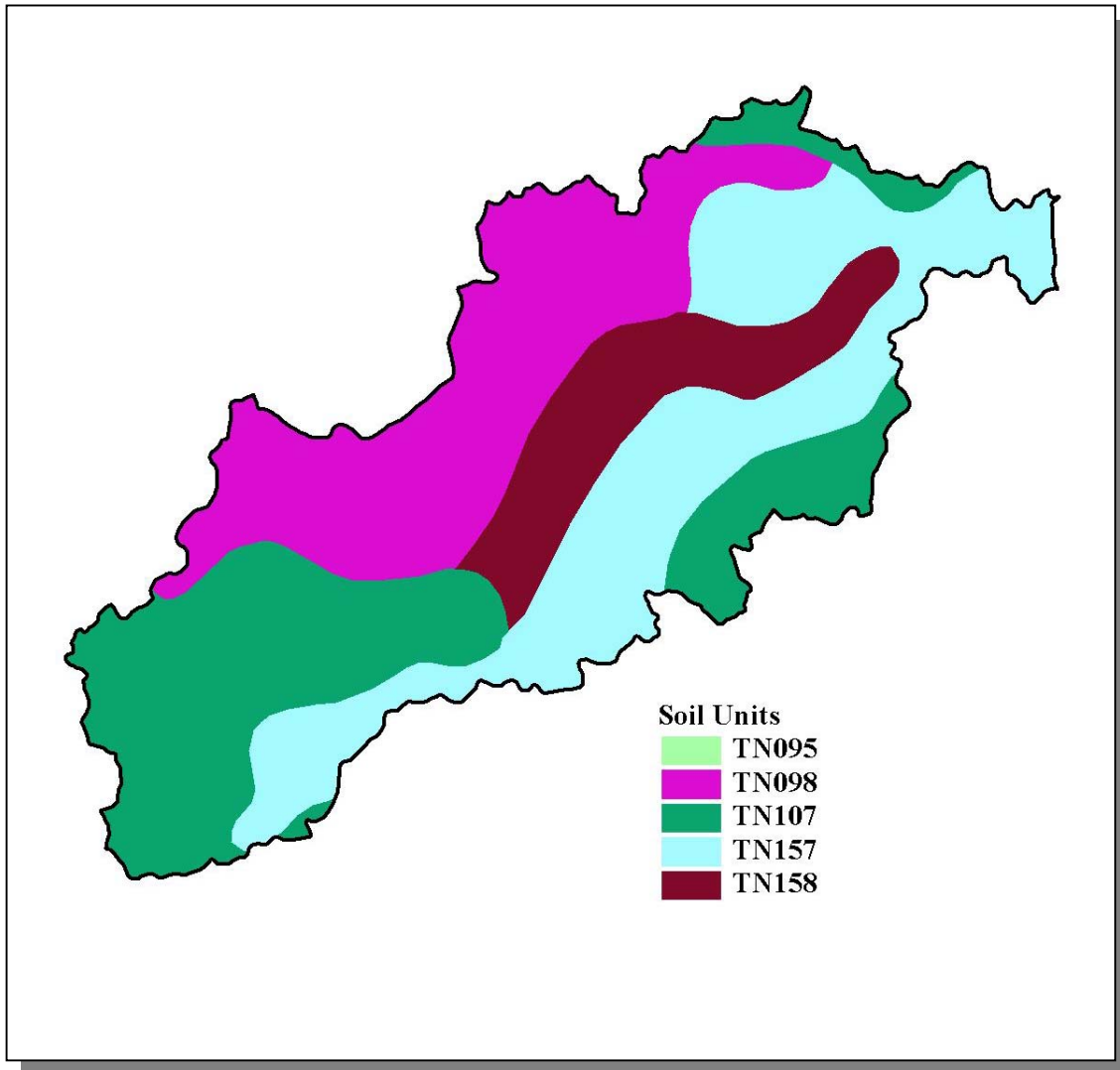


Figure 4-144. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040402.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	5.00	C	3.98	4.82	Loam	0.32
TN100	0.00	B	1.14	3.35	Silty Loam	0.21
TN107	5.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-112. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040402. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	4.97	912	985	1,050	15.1

Table 4-113. Population Estimates in Subwatershed 051301040402

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Oneida	Scott	3,502	1,506	1,098	393	15

Table 4-114. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051301040402.

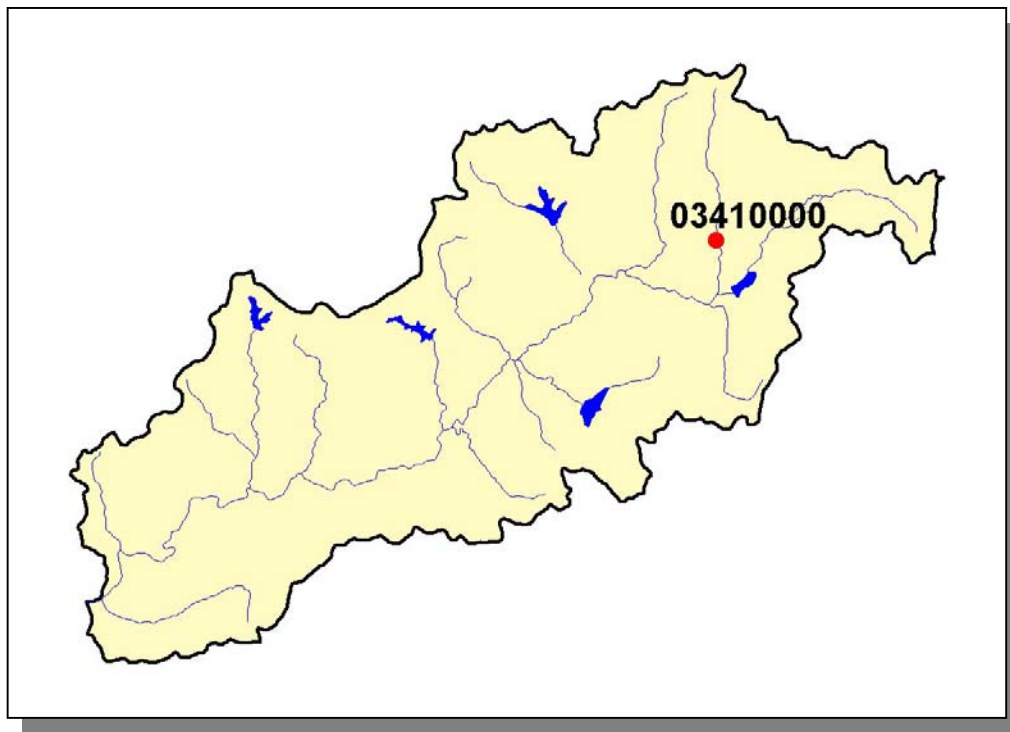


Figure 4-145. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040402. More information is provided in Appendix IV.

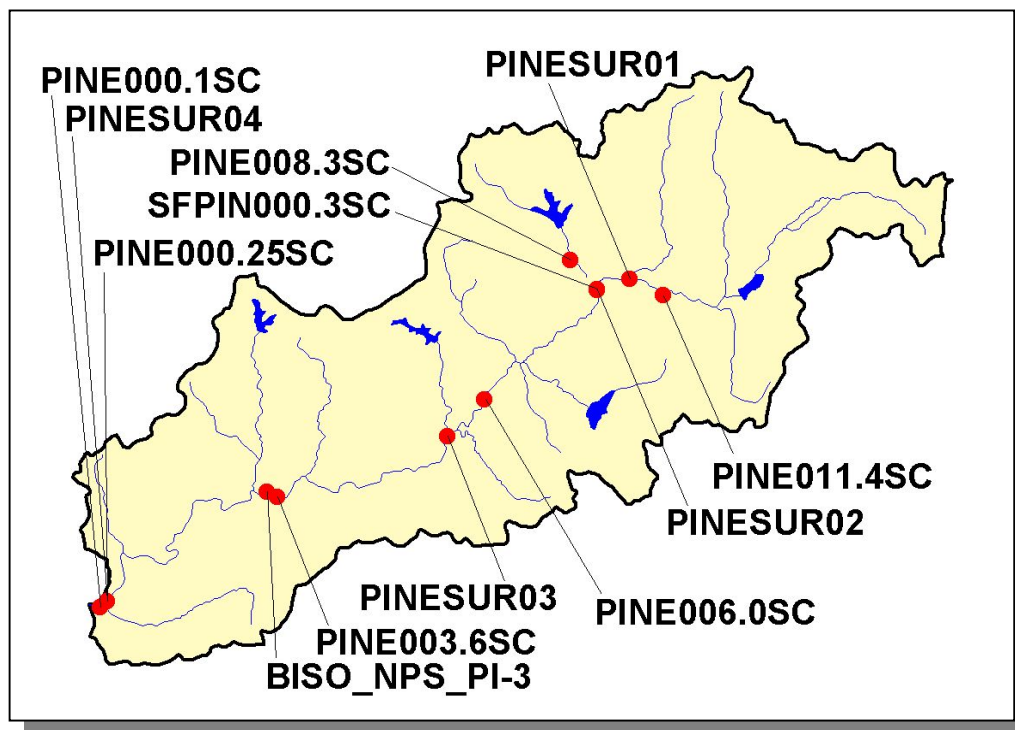


Figure 4-146. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040402. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.ii.a. Point Source Contributions.

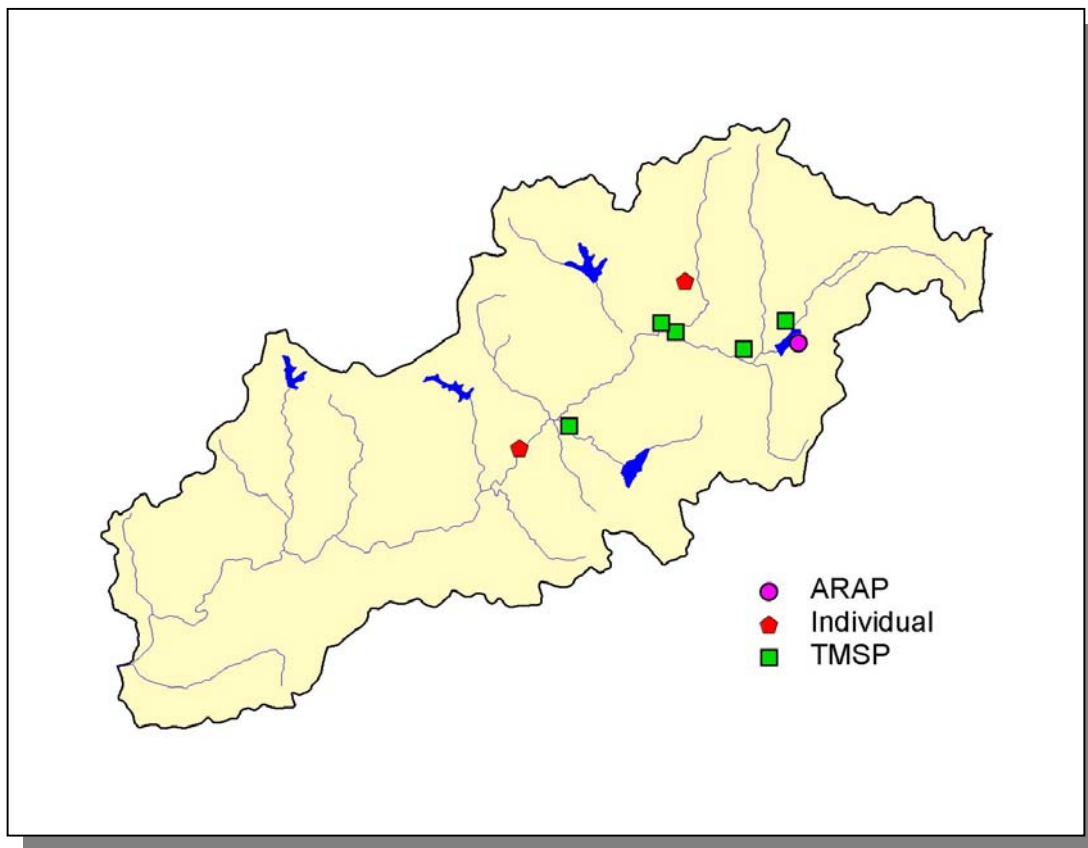


Figure 4-147. Location of Permits Issued in Subwatershed 051301040402. More information, including the names of facilities, is provided in Appendix IV.

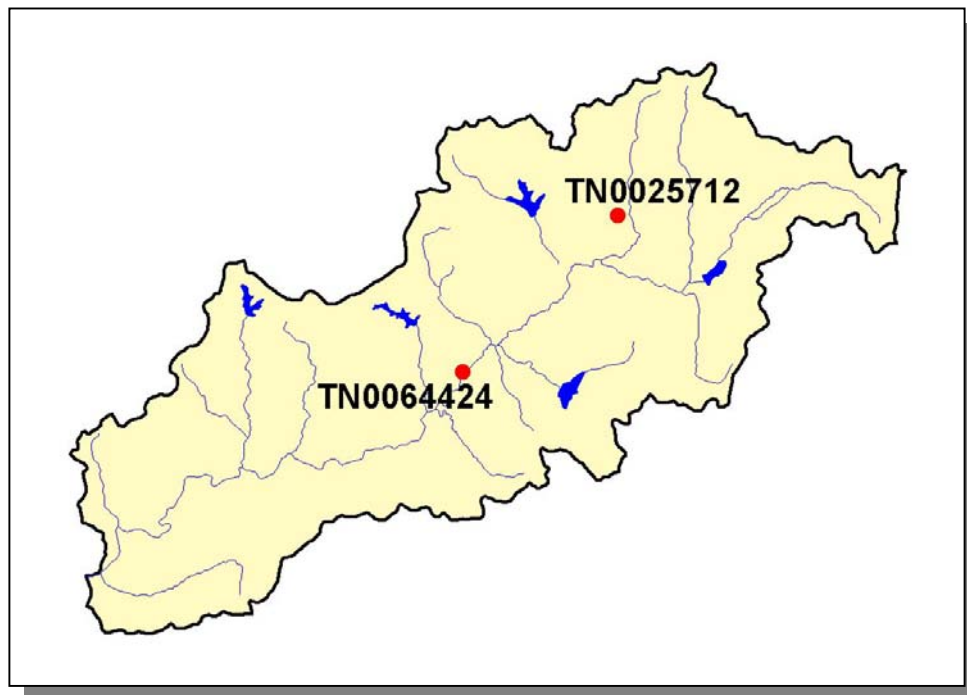


Figure 4-148. Location of Active NPDES Sites in Subwatershed 051301040402. More information, including the names of facilities, is provided in Appendix IV.

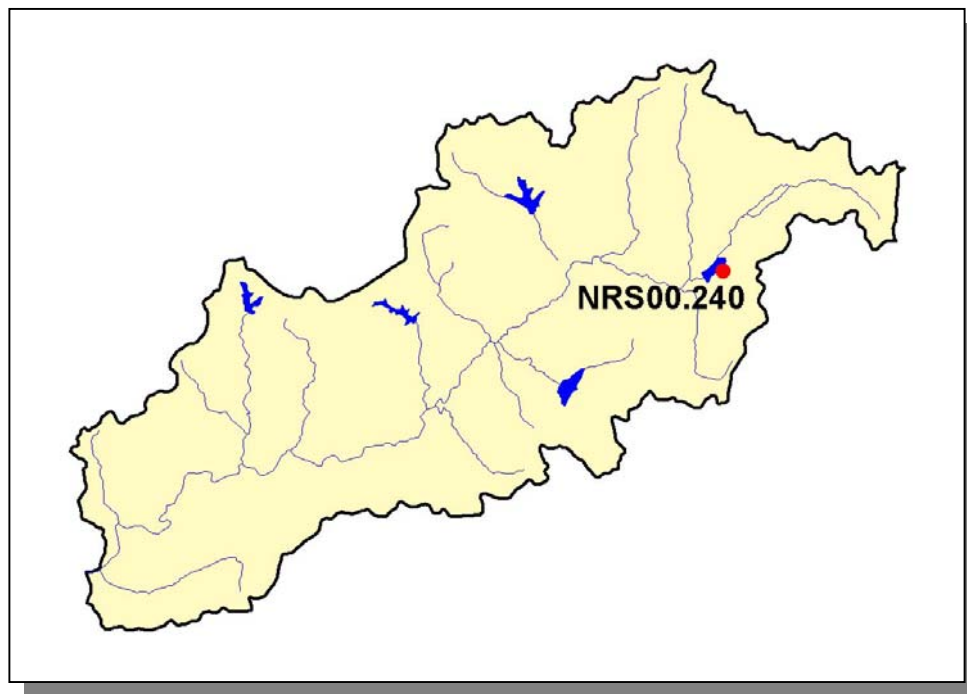


Figure 4-149. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301040402. More information is provided in Appendix IV.

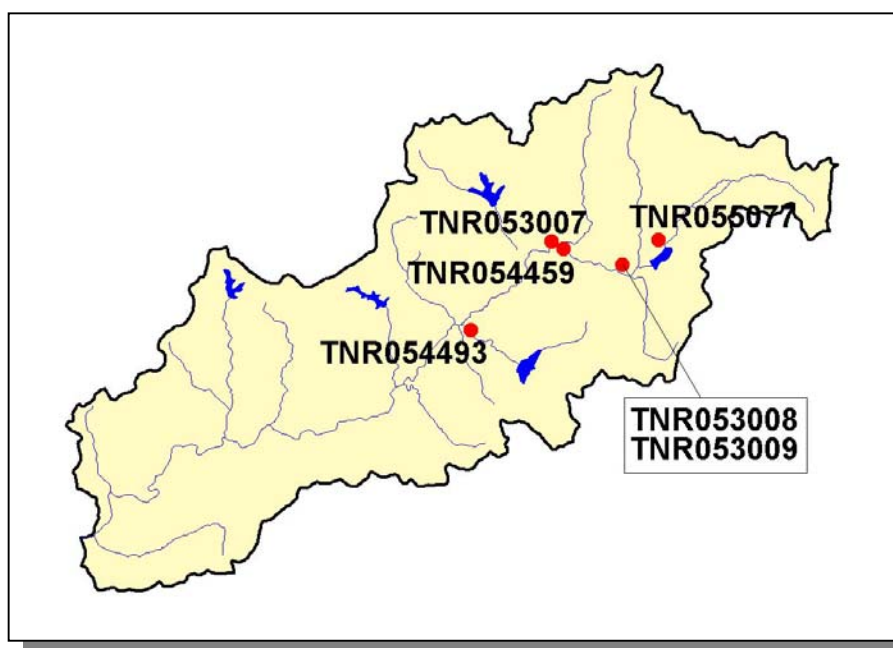


Figure 4-150. Location of TMSP Sites in Subwatershed 051301040402. More information, including the names of facilities, is provided in Appendix IV.

4.2.D.ii.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There are two NPDES facilities discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051301040402:

- TN0025712 (HBD Industries) discharges to Litton Fork Pine Creek @ RM 0.1
- TN0064424 (Oneida STP) discharges to Pine Creek @ RM 7.2

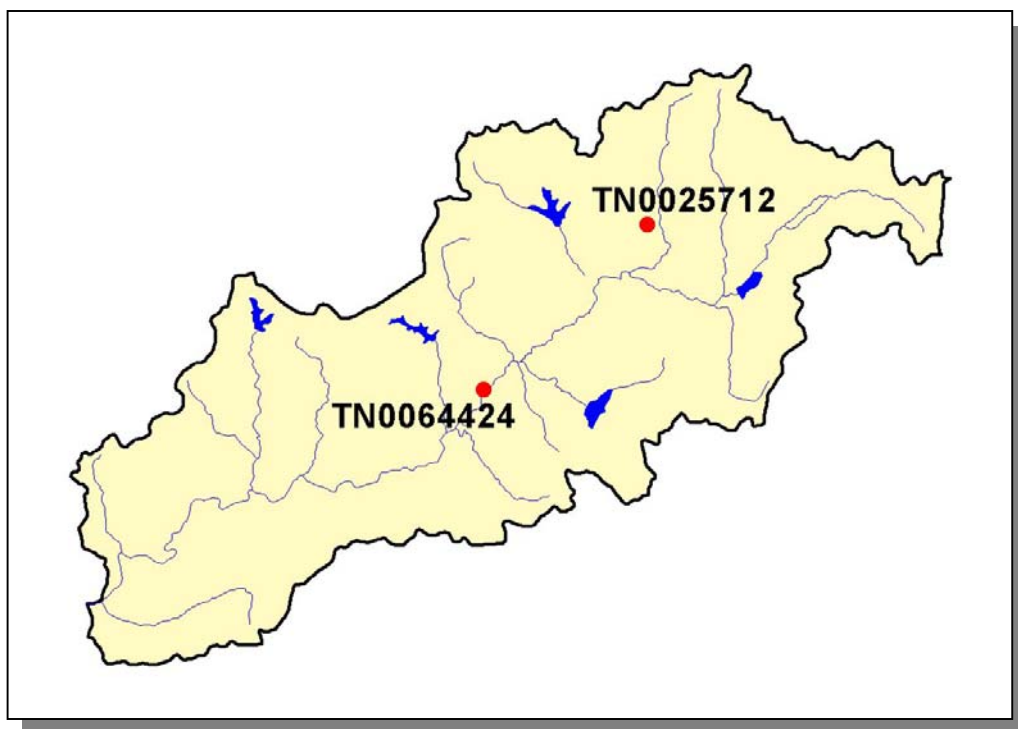


Figure 4-151. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051301040402. More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	NO ₃	Zn	Hg	Cu	Pb	Ni	Cd	Mo	As	Se	FLOW	TEMPERATURE
TN0025712											X	X
TN0064424	X	X	X	X	X	X	X	X	X	X		

Table 4-115. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040402.

PERMIT #	WET	CBOD ₅	NH ₃	TRC	TSS	SETTLEABLE SOLIDS	DO	pH	CN	P	OIL and GREASE
TN0025712					X			X			X
TN0064424	X	X	X	X	X	X	X	X	X	X	

Table 4-116. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040402. WET, Whole Effluent Toxicity; CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

PERMIT #	<i>E. coli</i>	FECAL COLIFORM
TN0064424	X	X

Table 4-117. Bacteria Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040402.

4.2.D.ii.b. Nonpoint Source Contributions.

There are no known nonpoint source contributions in this subwatershed.

4.3.D.iii. 051301040403 (Station Camp Creek).

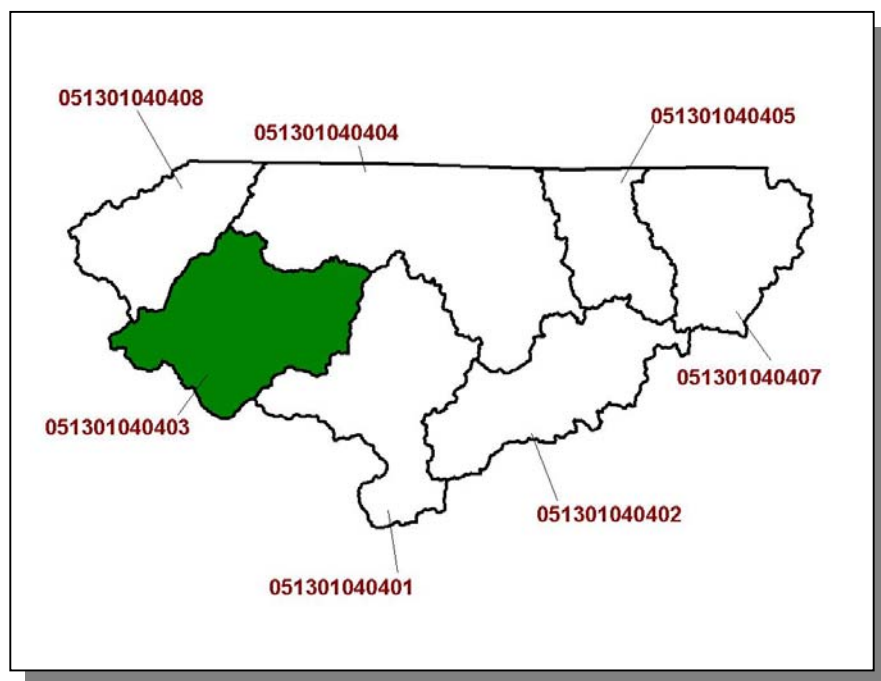


Figure 4-152. Location of Subwatershed 051301040403. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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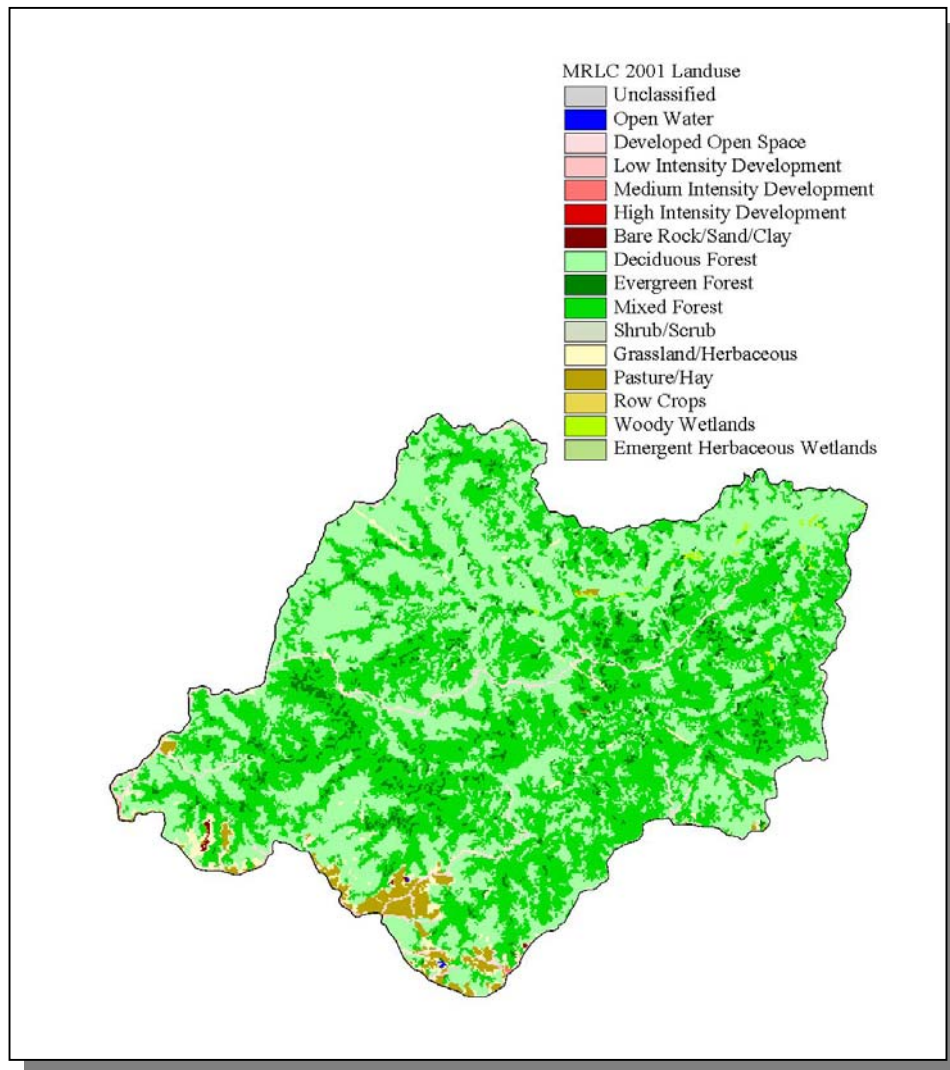


Figure 4-153. Illustration of Land Use Distribution in Subwatershed 051301040403.

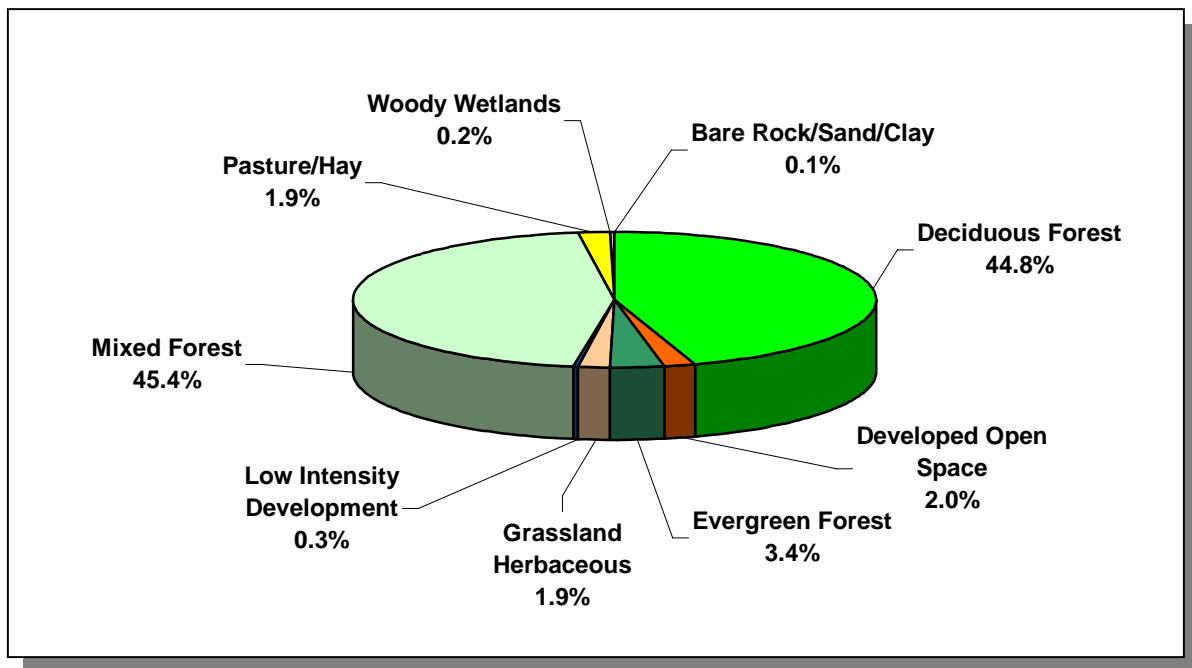


Figure 4-154. Land Use Distribution in Subwatershed 051301040403. More information is provided in Appendix IV.

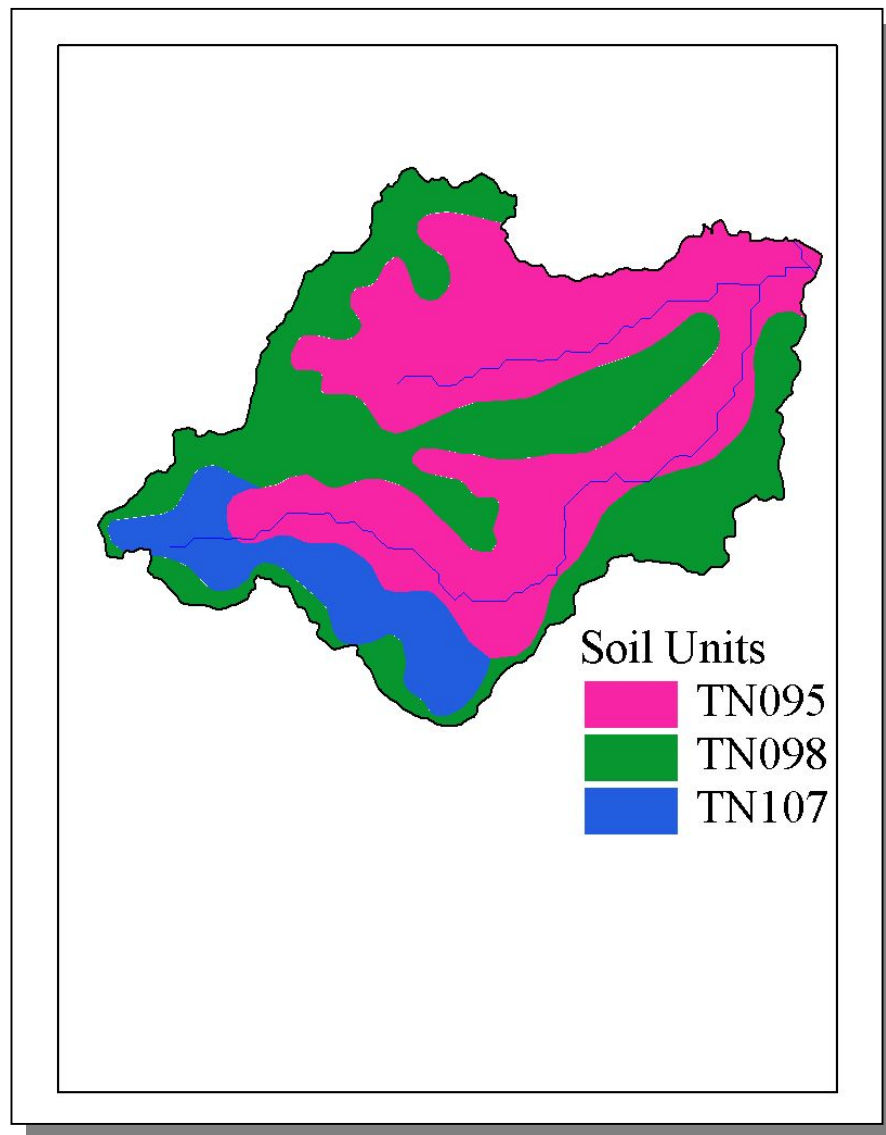


Figure 4-155. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040403.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-118. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040403. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	3.1	455	494	516	13.4
Pickett	4,548	4,631	4,945	2.8	127	130	138	8.7
Scott	18,358	19,816	21,127	2.11	387	418	446	15.2
Total	37,575	40,367	42,697		969	1,042	1,100	13.5

Table 4-119. Population Estimates in Subwatershed 051301040403.

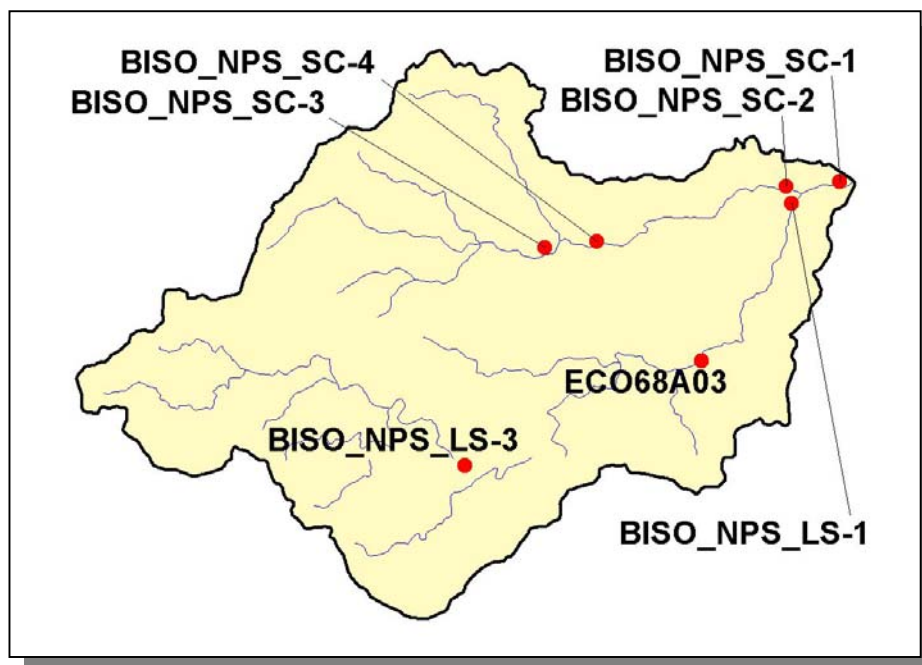


Figure 4-156. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040403. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.D.iii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.D.iii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTSS					
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs	Sheep
84	180	5	76,233	7	<5

Table 4-120. Summary of Livestock Count Estimates in Subwatershed 051301040403. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Pickett	5,986	10,864	19		285	99	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-121. Summary of Livestock Count Estimates in Fentress, Pickett, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

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County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Pickett	68.4	68.4	0.2	0.6
Scott	300.3	300.3	5.5	21.4

Table 4-122. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Pickett, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.64
Grass (Hayland)	0.11
Legumes, Grass (Hayland)	0.44
Grass, Forbs, Legumes (Mixed Pasture)	0.45
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Tobacco (Row Crops)	23.18
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	1.43

Table 4-123. Annual Estimated Total Soil Loss in Subwatershed 051301040403.

4.3.D.iv. 051301040404 (Big South Fork).

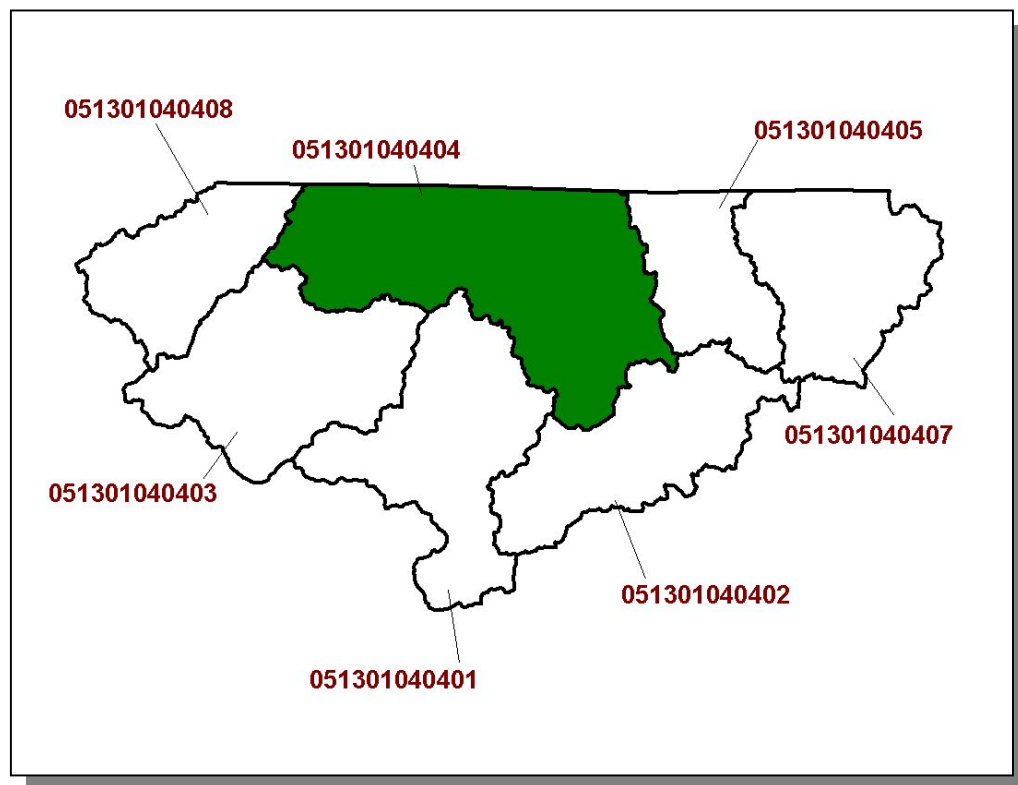


Figure 4-157. Location of Subwatershed 051301040404. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

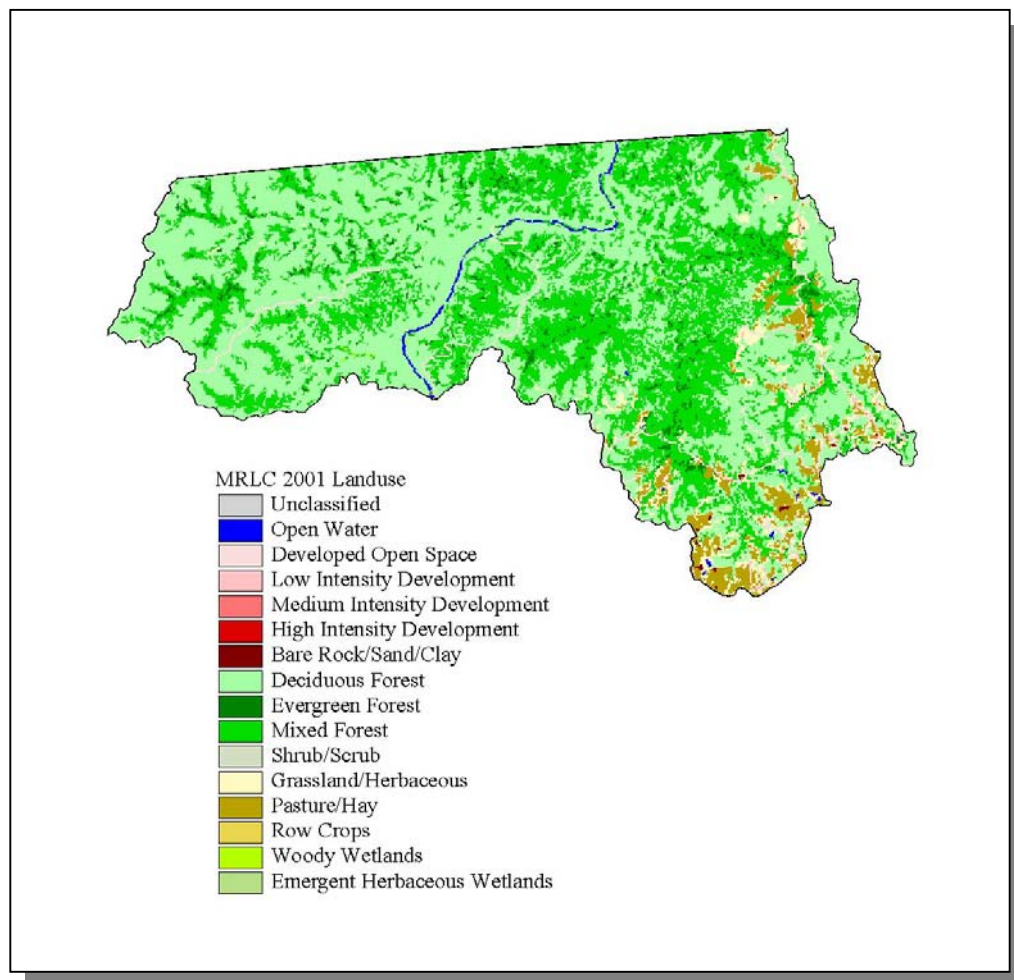


Figure 4-158. Illustration of Land Use Distribution in Subwatershed 051301040404.

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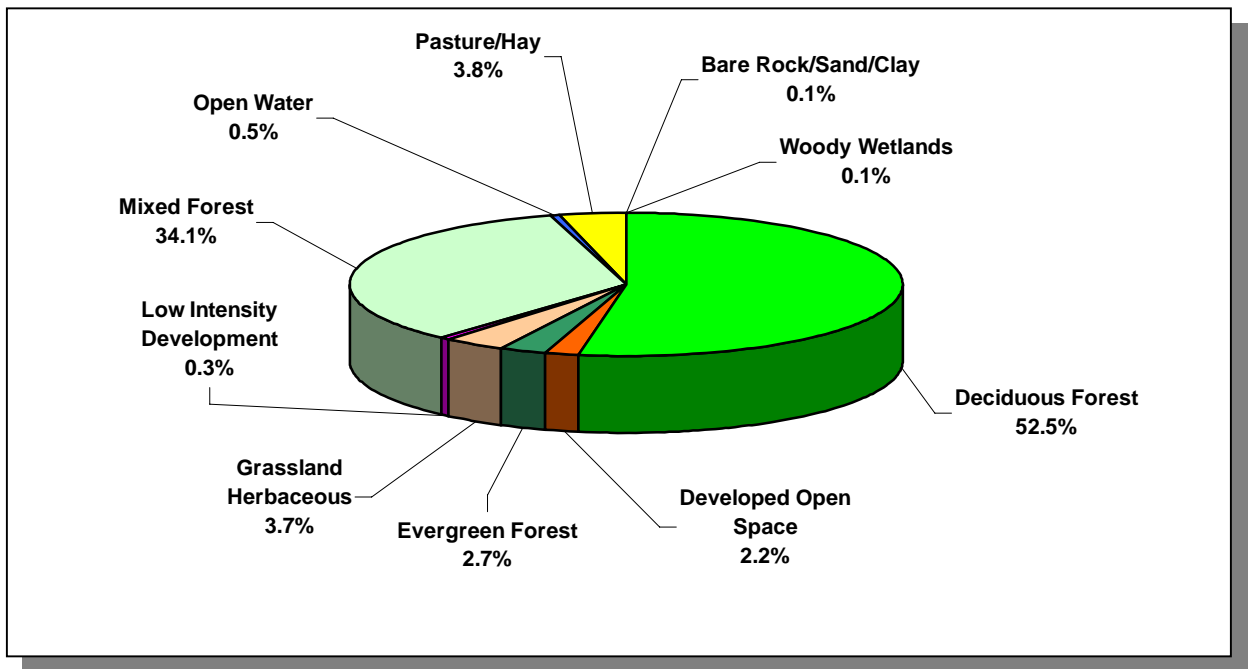


Figure 4-159. Land Use Distribution in Subwatershed 051301040404. More information is provided in Appendix IV.

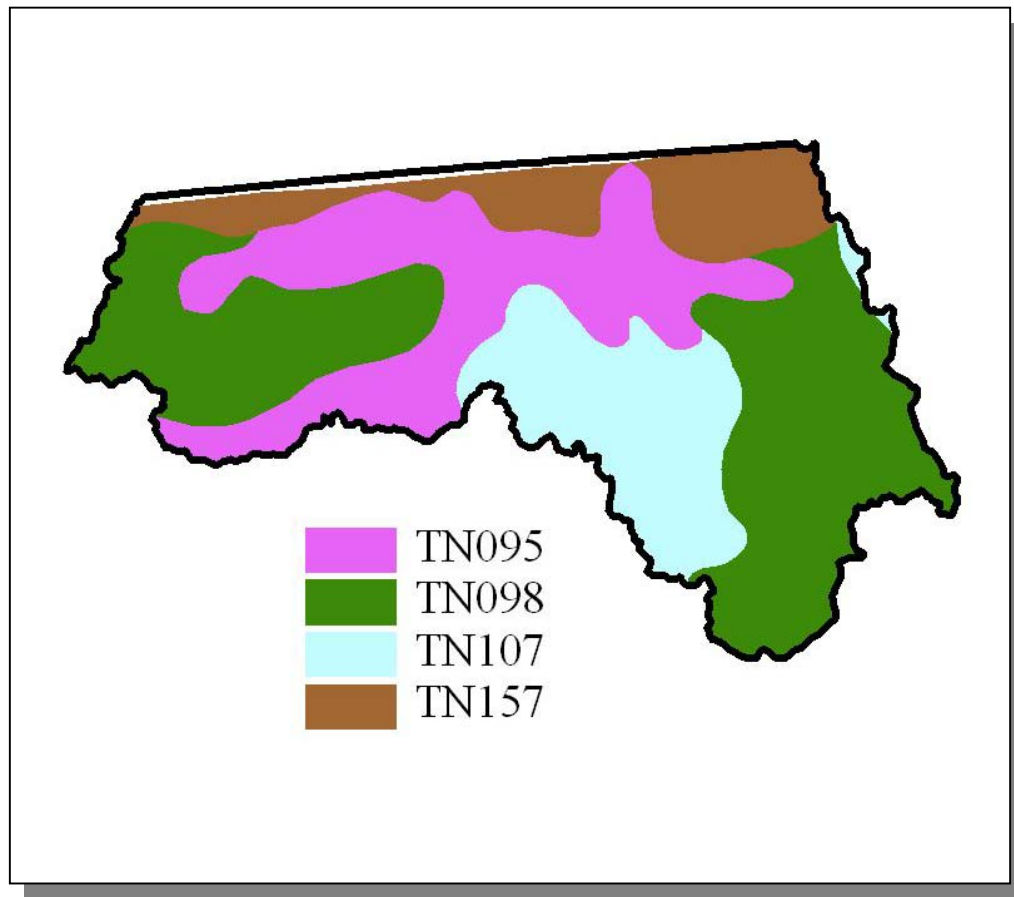


Figure 4-160. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040404.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-124. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040404. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	9.18	1,686	1,820	1,940	15.1

Table 4-125. Population Estimates in Subwatershed 051301040404.

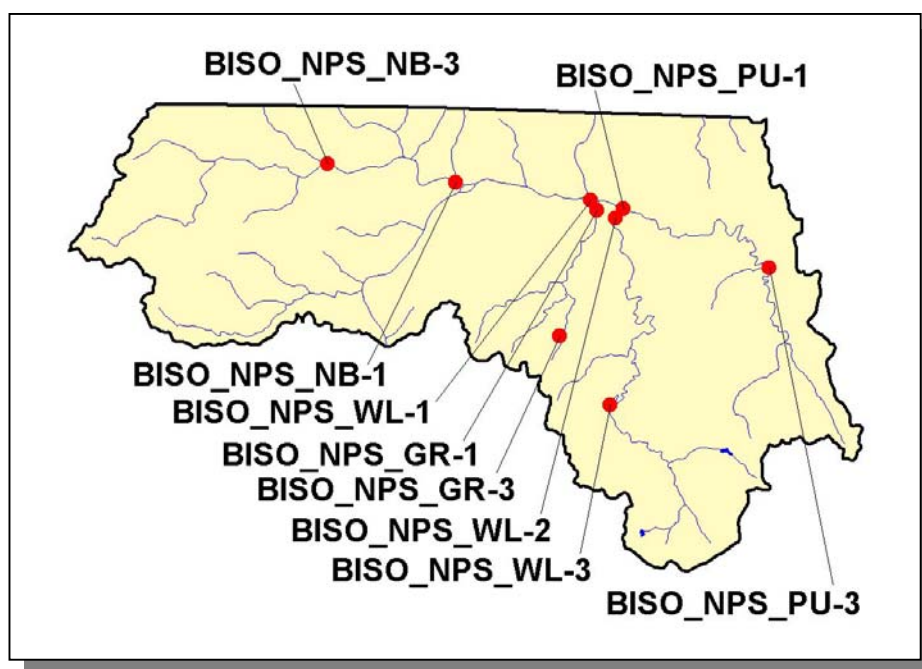


Figure 4-161. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040404. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.D.iv.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.D.iv.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
209	426	21	<5	190,549	<5	7

Table 4-126. Summary of Livestock Count Estimates in Subwatershed 051301040404. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-127. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-128. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Hayland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-129. Annual Estimated Total Soil Loss in Subwatershed 0604000401.

4.3.D.v. 051301040405 (Bear Creek).

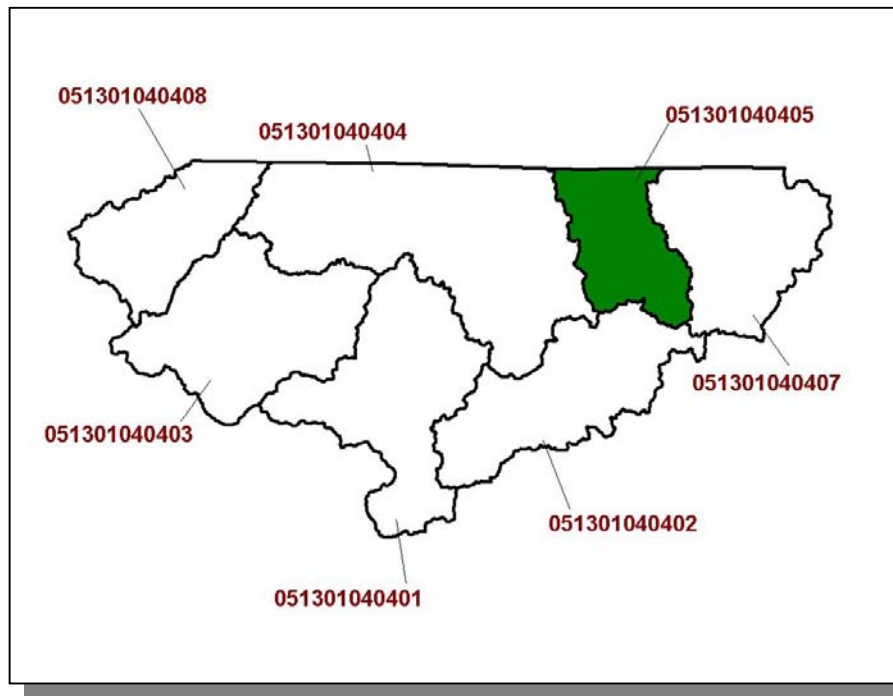


Figure 4-162. Location of Subwatershed 051301040405. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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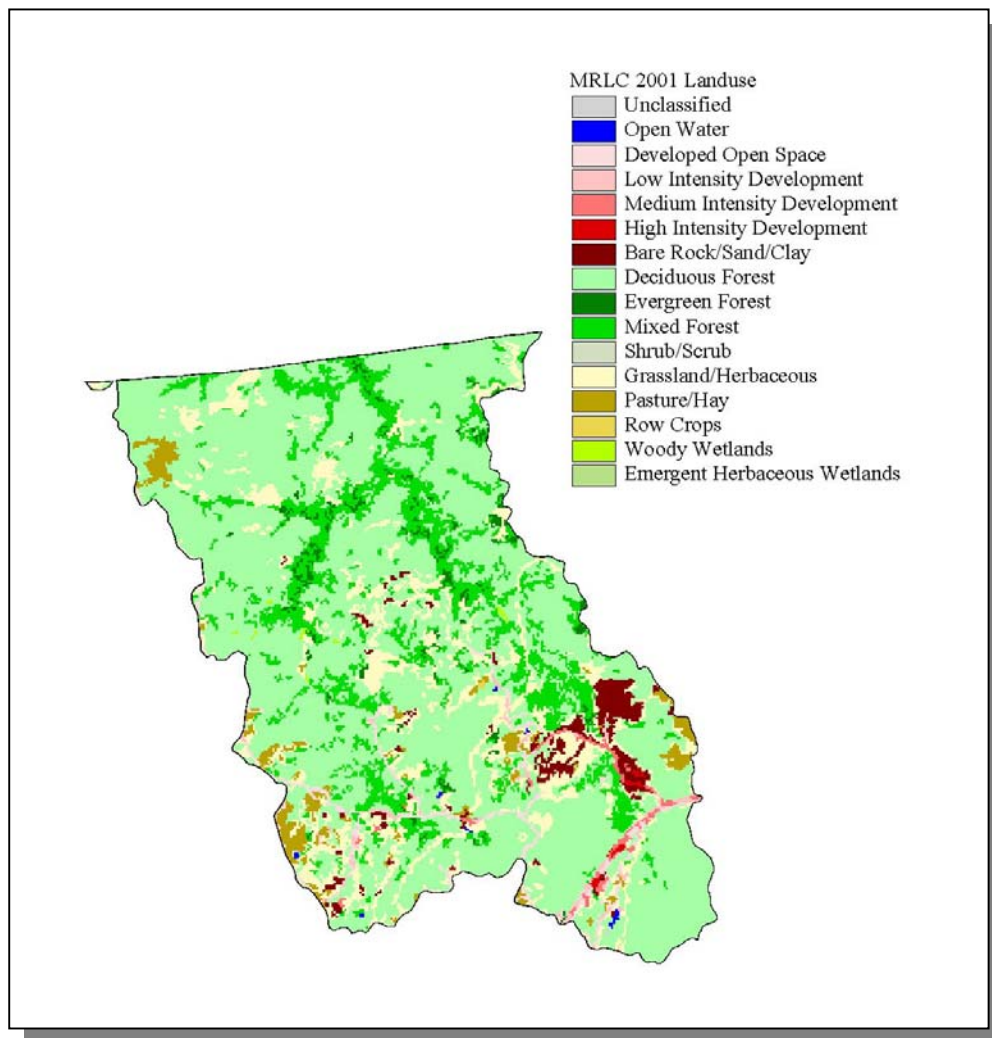


Figure 4-163. Illustration of Land Use Distribution in Subwatershed 051301040405.

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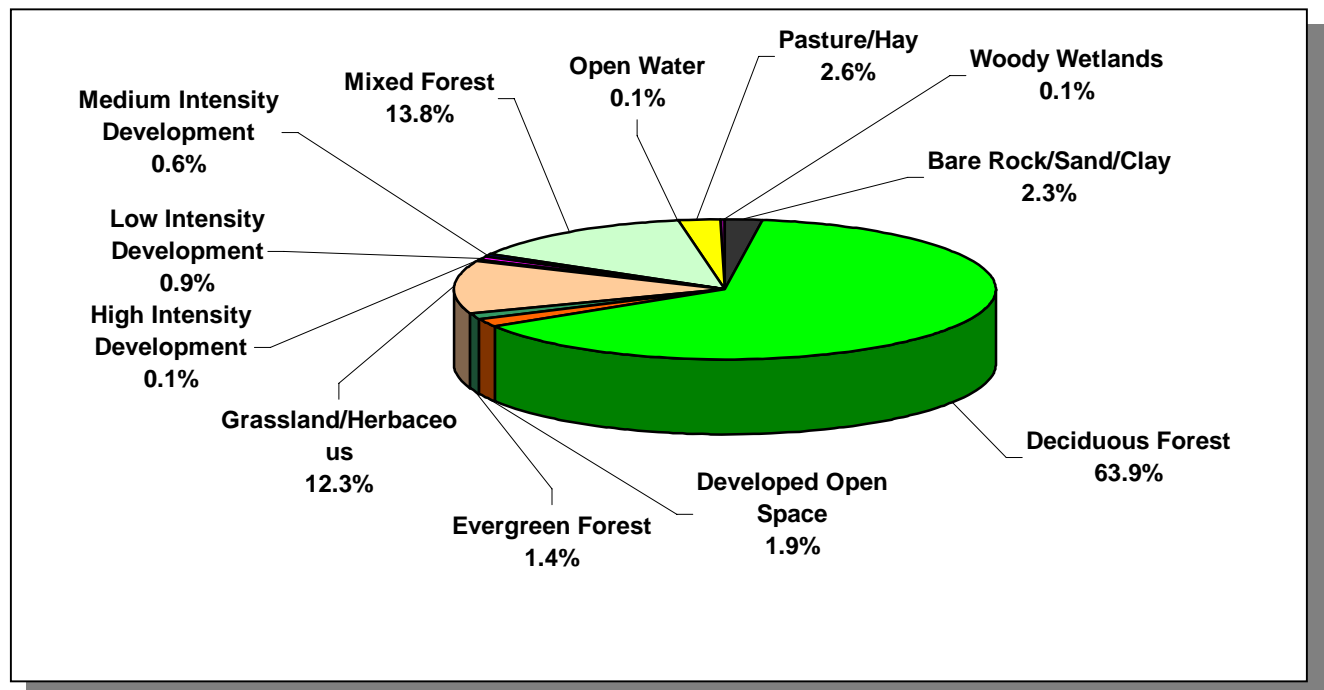


Figure 4-164. Land Use Distribution in Subwatershed 051301040405. More information is provided in Appendix IV.

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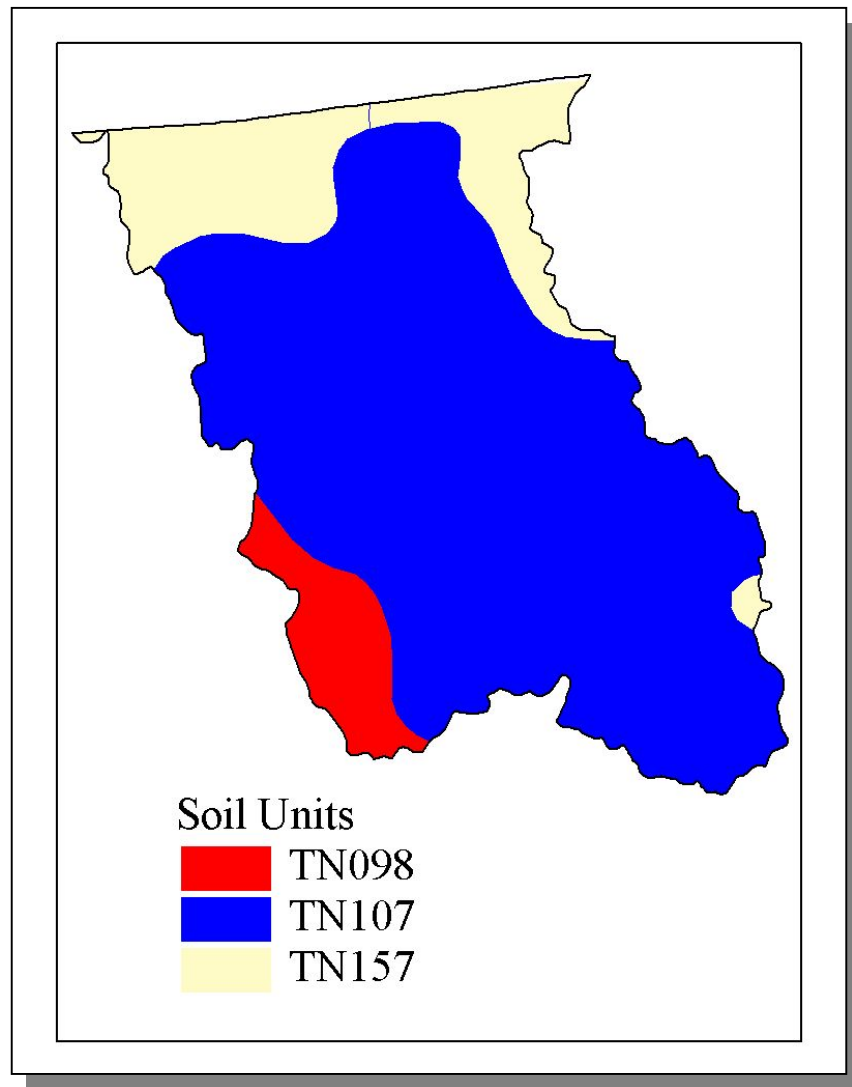


Figure 4-165. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040405.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-130. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040405. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	3.0	551	594	634	15.1

Table 4-131. Population Estimates in Subwatershed 051301040405.

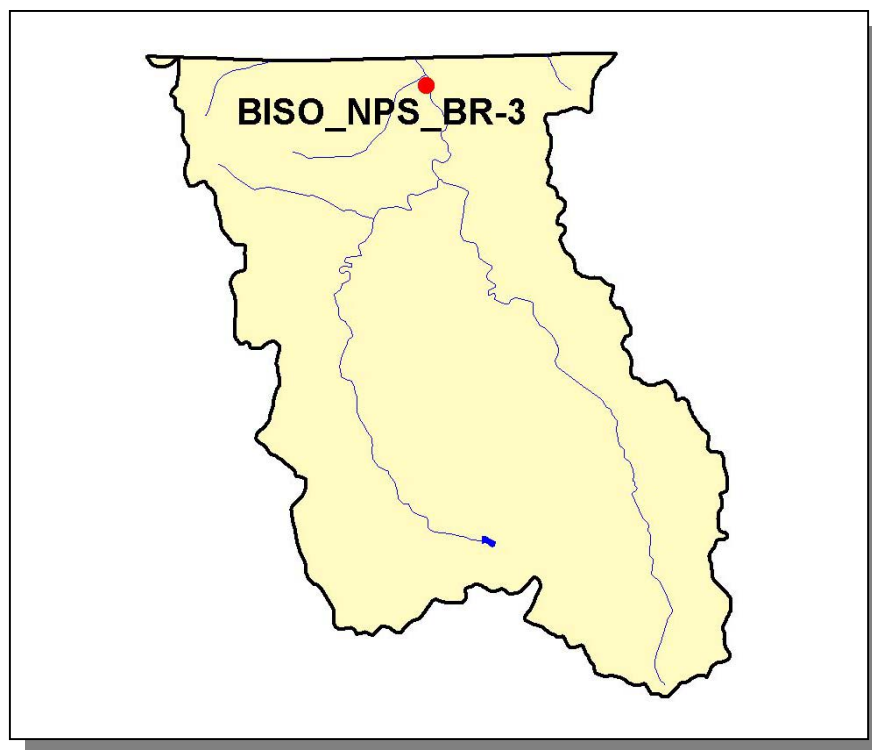


Figure 4-166. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040405. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.v.a. Point Source Contributions.

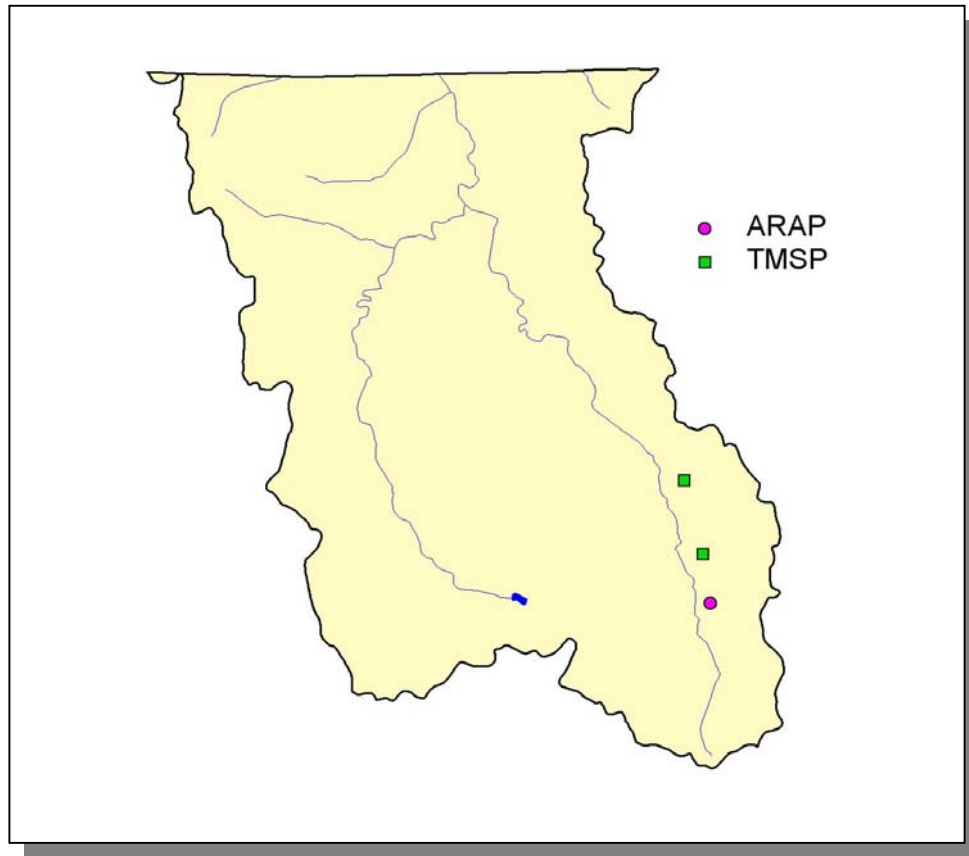


Figure 4-167. Location of Permits Issued in Subwatershed 051301040405. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-168. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301040405. More information is provided in Appendix IV.



Figure 4-169. Location of TMSP Sites in Subwatershed 051301040405. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.v.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs	Sheep
44	90	<5	40,185	0	<5

Table 4-132. Summary of Livestock Count Estimates in Subwatershed 051301040405. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-133. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-134. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-135. Annual Estimated Total Soil Loss in Subwatershed 051301040405.

4.3.D.vi. 051301040407 (Roaring Paunch Creek).

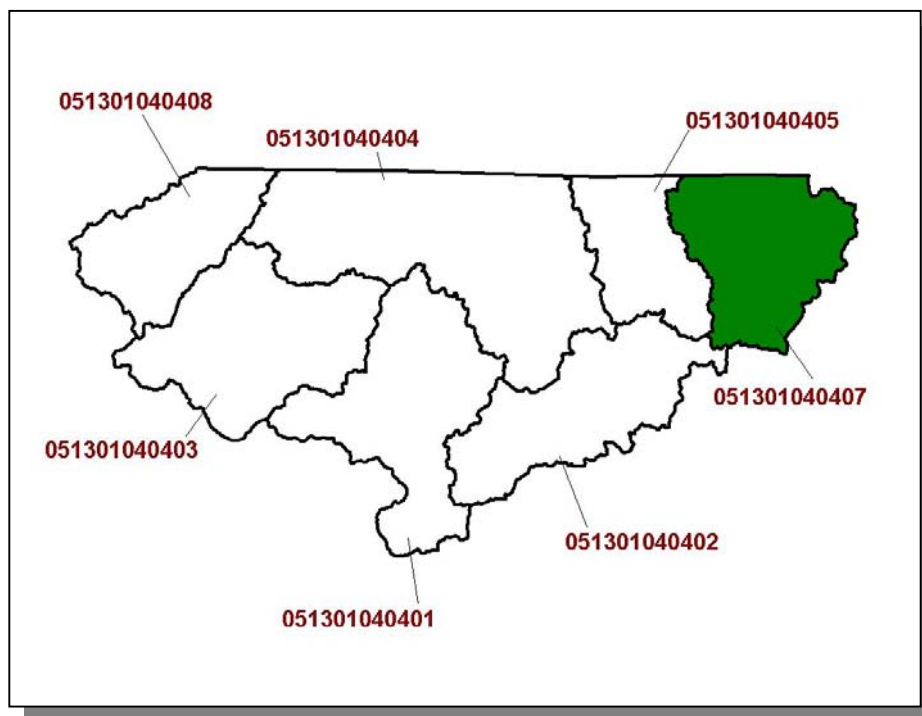


Figure 4-170. Location of Subwatershed 051301040407. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

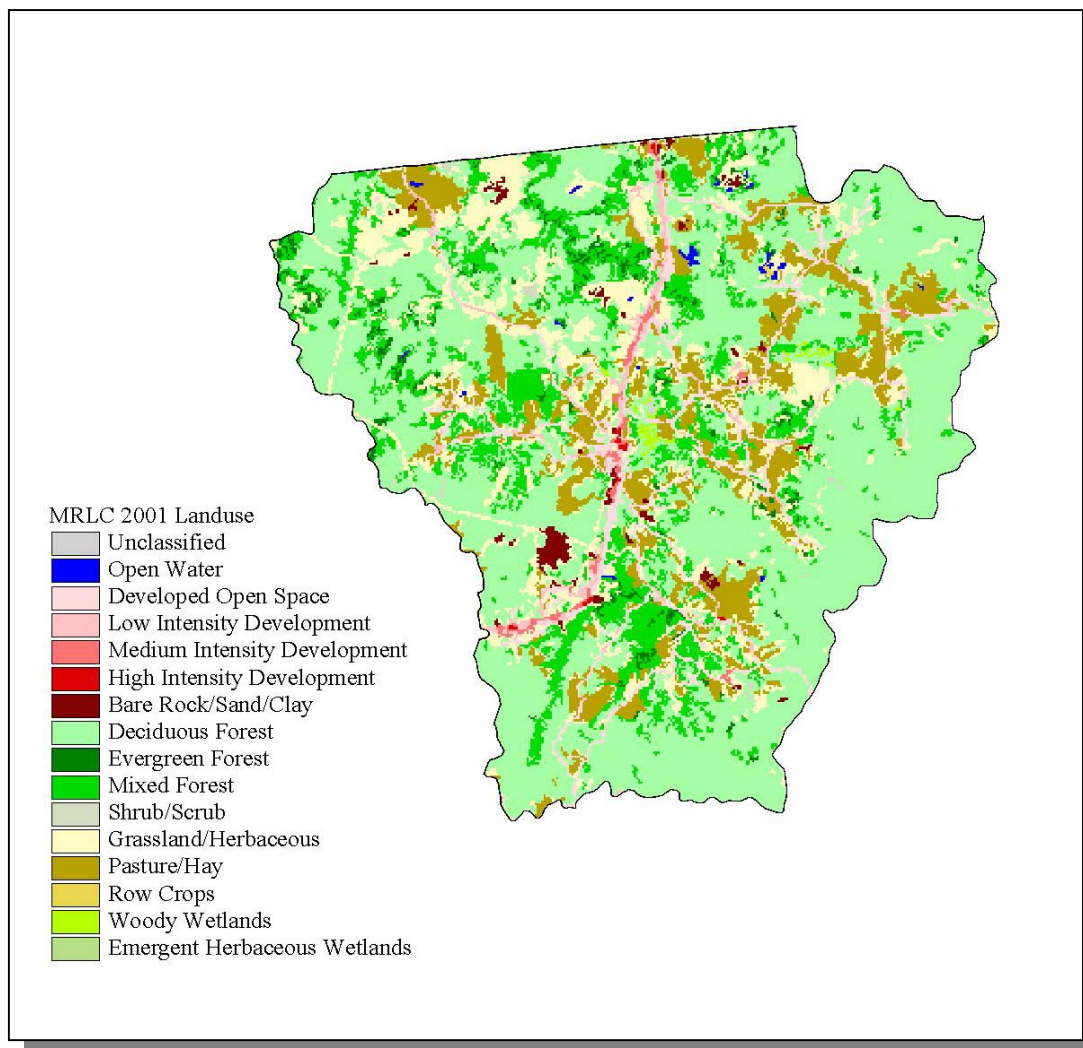


Figure 4-171. Illustration of Land Use Distribution in Subwatershed 051301040407.

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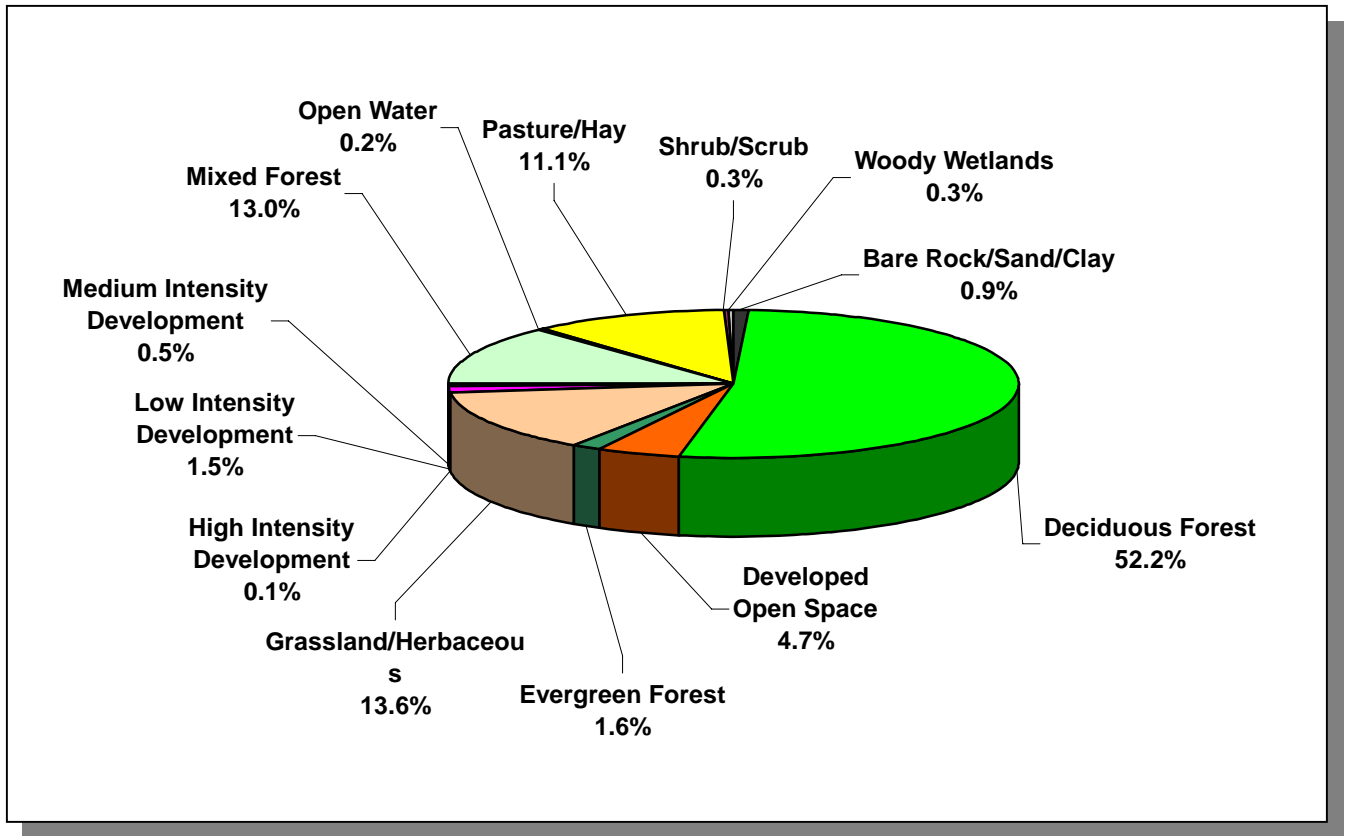


Figure 4-172. Land Use Distribution in Subwatershed 051301040407. More information is provided in Appendix IV.

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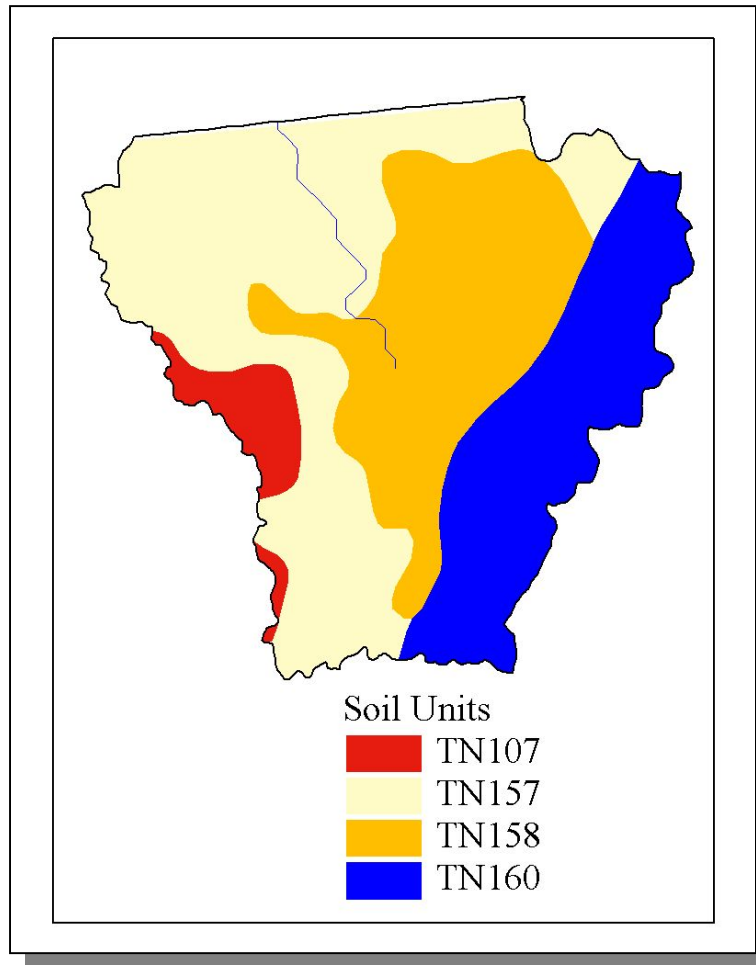


Figure 4-173. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040407.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28
TN158	22.00	C	1.89	5.14	Silty Loam	0.29
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-136. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040407. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	4.58	840	907	967	15.1

Table 4-137. Population Estimates in Subwatershed 051301040407.

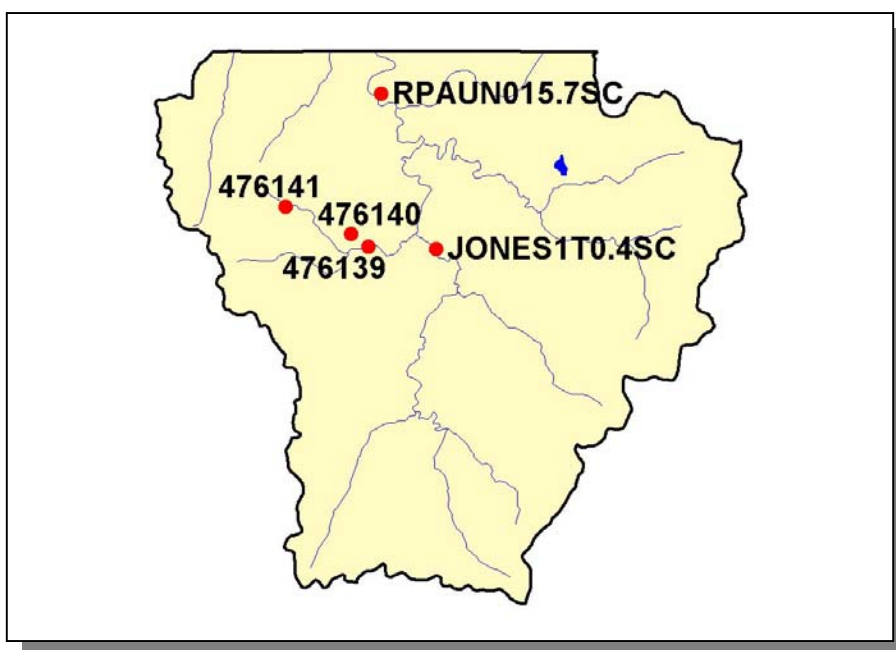


Figure 4-174. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040407. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.vi.a. Point Source Contributions.

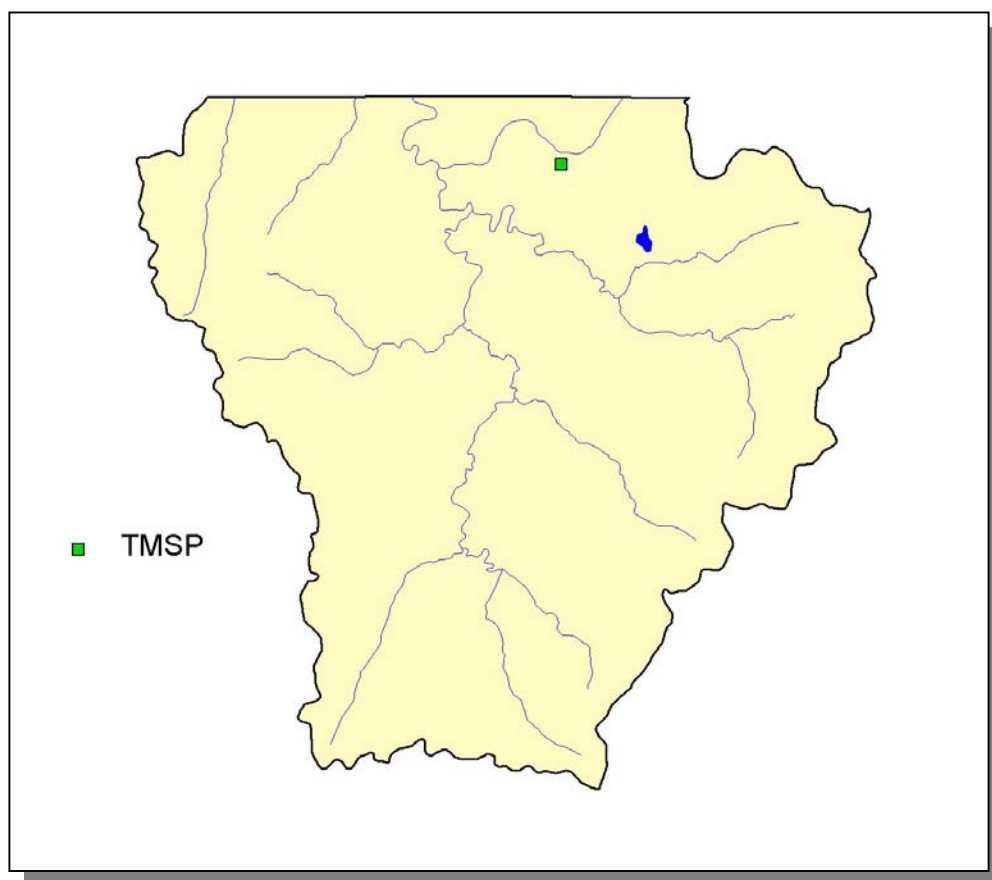


Figure 4-175. Location of Permits Issued in Subwatershed 051301040407. More information, including the names of facilities, is provided in Appendix IV.

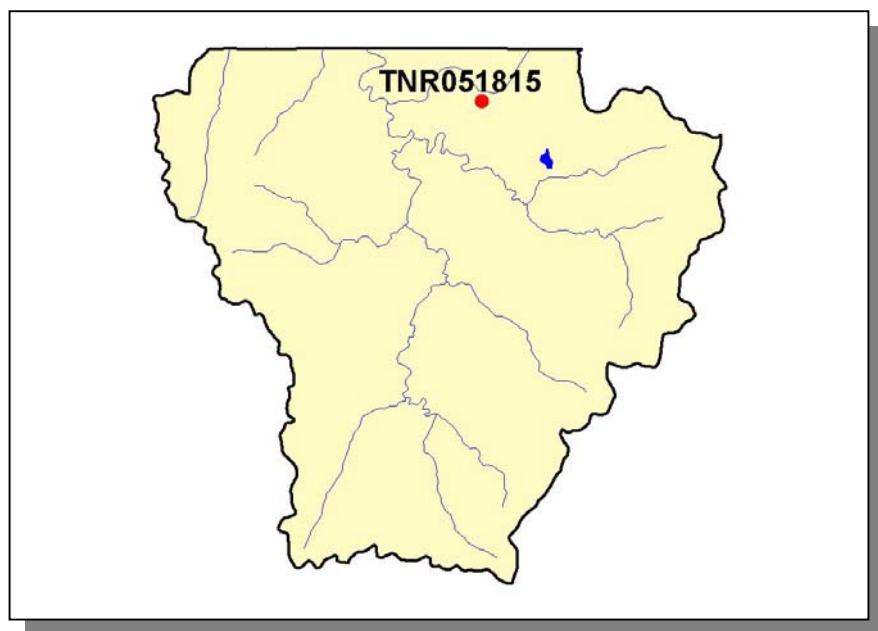


Figure 4-176. Location of TMSP Sites in Subwatershed 051301040407. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.vi.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
266	544	26	<5	243,273	<5	9

Table 4-138. Summary of Livestock Count Estimates in Subwatershed 051301040407. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-139. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-140. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-141. Annual Estimated Total Soil Loss in Subwatershed 051301040407.

4.3.D.vii. 051301040408 (Rock Creek).

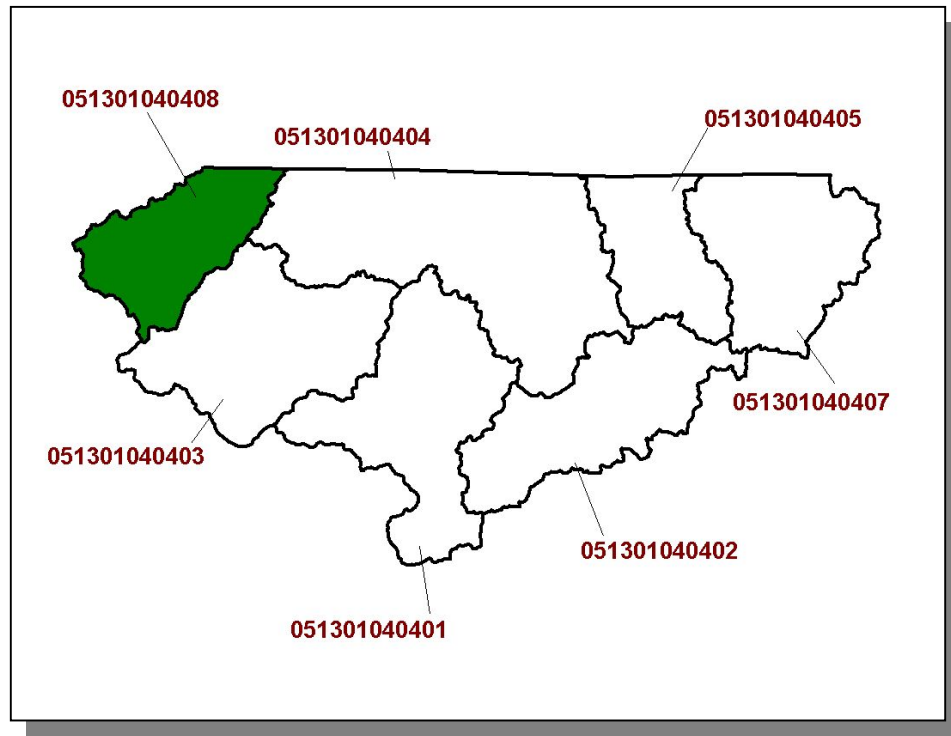


Figure 4-177. Location of Subwatershed 051301040408. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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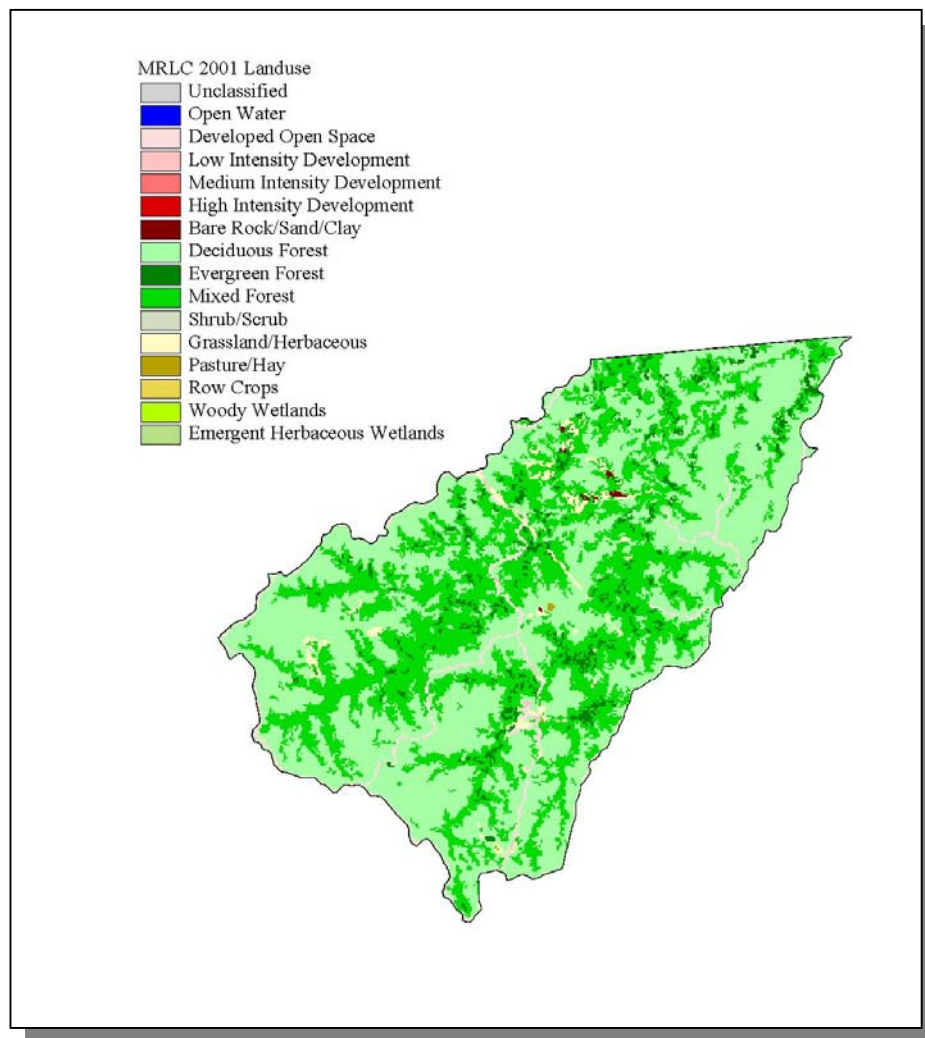


Figure 4-178. Illustration of Land Use Distribution in Subwatershed 051301040408.

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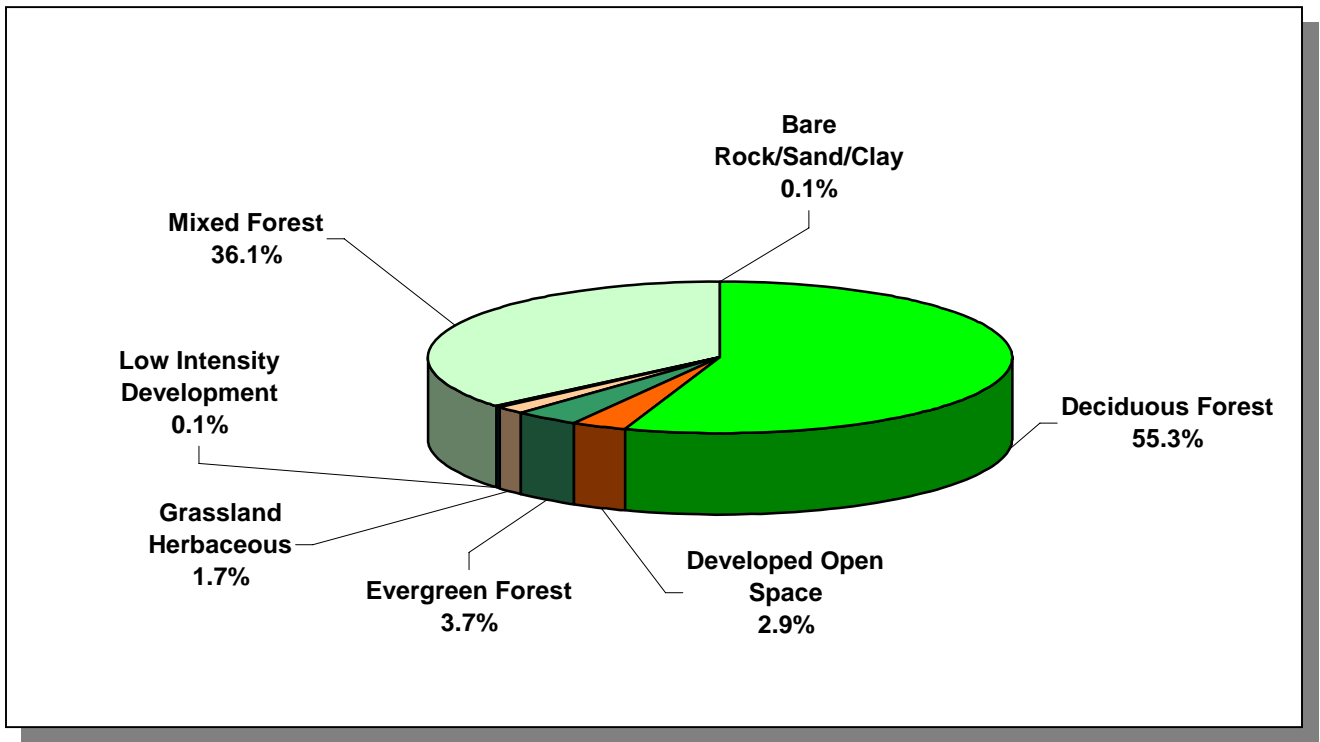


Figure 4-179. Land Use Distribution in Subwatershed 051301040408. More information is provided in Appendix IV.

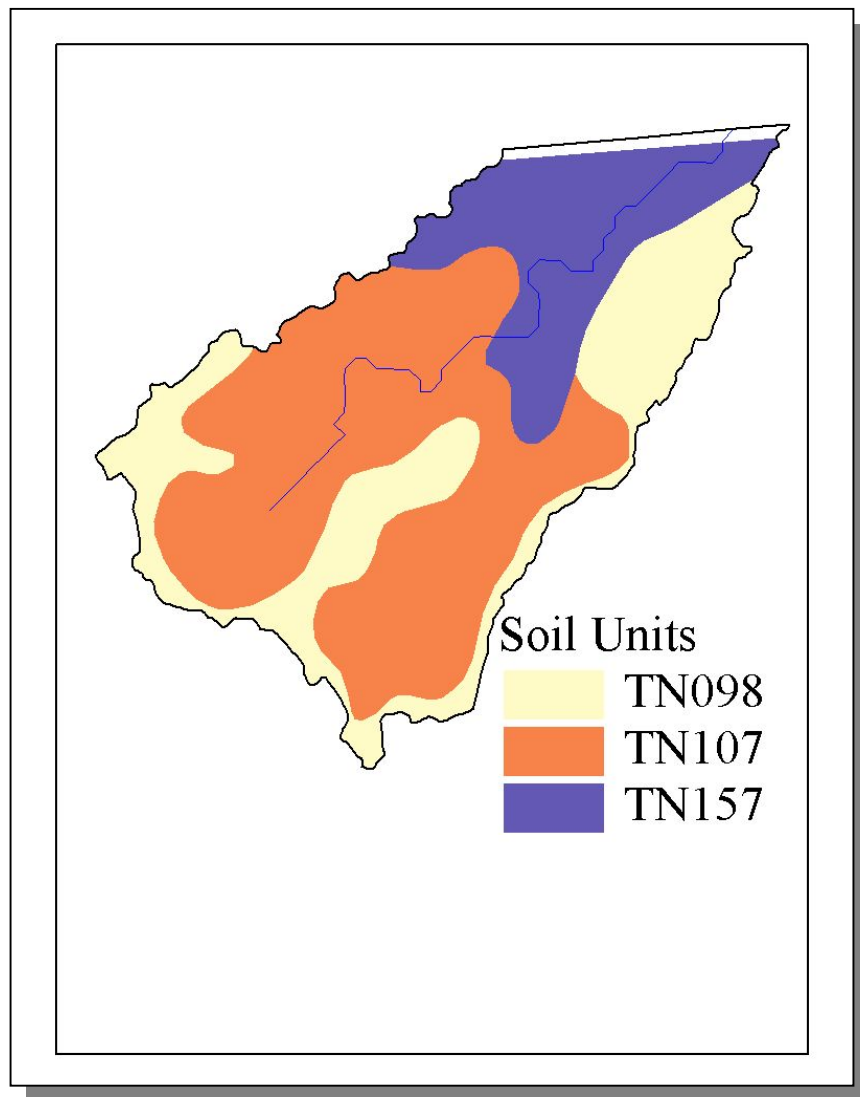


Figure 4-180. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040408.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-142. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040408. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	0.61	90	98	102	13.3
Pickett	4,548	4,631	4,945	6.68	304	309	330	8.6
Scott	18,358	19,816	21,127	0.66	121	131	139	14.9
Total	37,575	40,367	42,697		515	538	571	10.9

Table 4-143. Population Estimates in Subwatershed 051301040408.

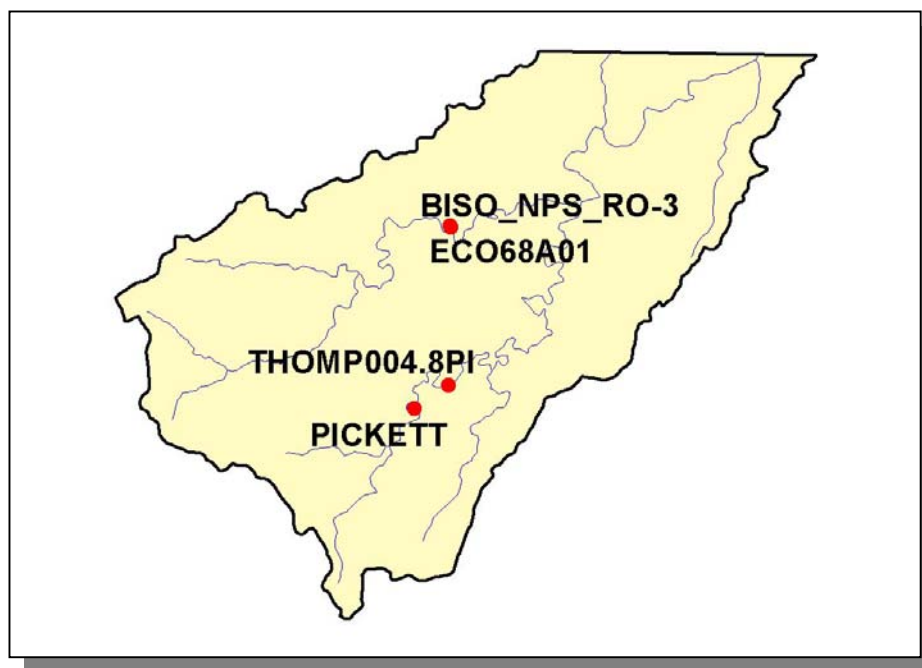


Figure 4-181. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040408. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.D.vii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.D.vii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS	
Beef Cow	Cattle
<5	<5

Table 4-144. Summary of Livestock Count Estimates in Subwatershed 051301040408. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Pickett	5,986	10,864	19		285	99	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-145. Summary of Livestock Count Estimates in Fentress, Pickett, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Pickett	68.4	68.4	0.2	0.6
Scott	300.3	300.3	5.5	21.4

Table 4-146. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Pickett, and Scott Counties.

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CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.89
Grass (Hayland)	0.11
Legumes, Grass (Hayland)	0.17
Grass, Forbs, Legumes (Mixed Pasture)	0.61
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Tobacco (Row Crops)	23.18
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	4.91

Table 4-147. Annual Estimated Total Soil Loss in Subwatershed 051301040408.

4.2.E. 0513010405.

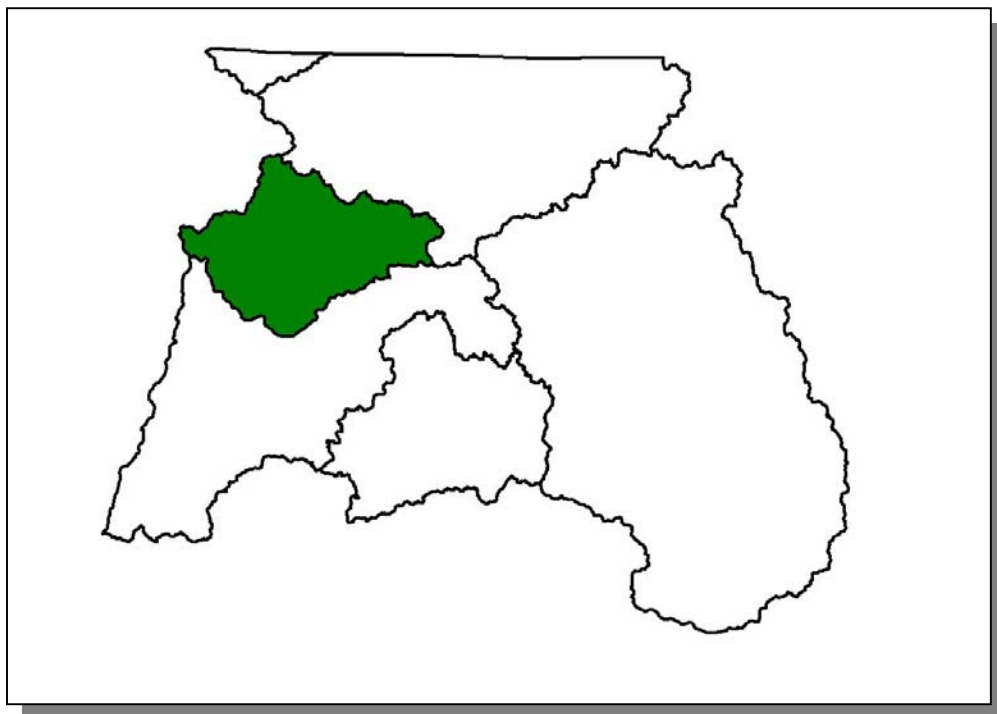


Figure 4-182. Location of Subwatershed 0513010405. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.3.E.i. 051301040501 (North Whiteoak Creek).

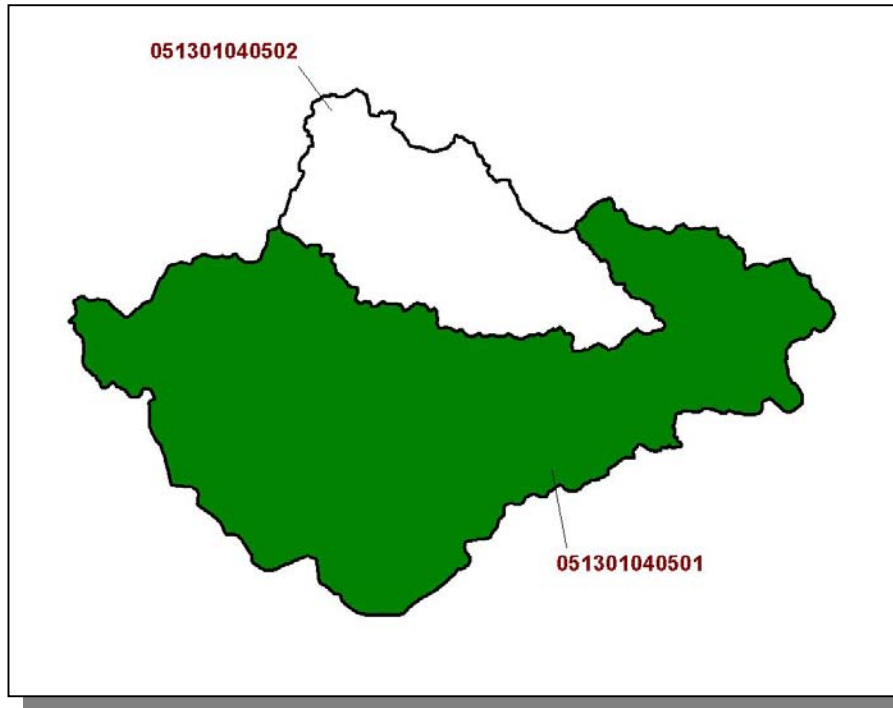


Figure 4-183. Location of Subwatershed 051301040501. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

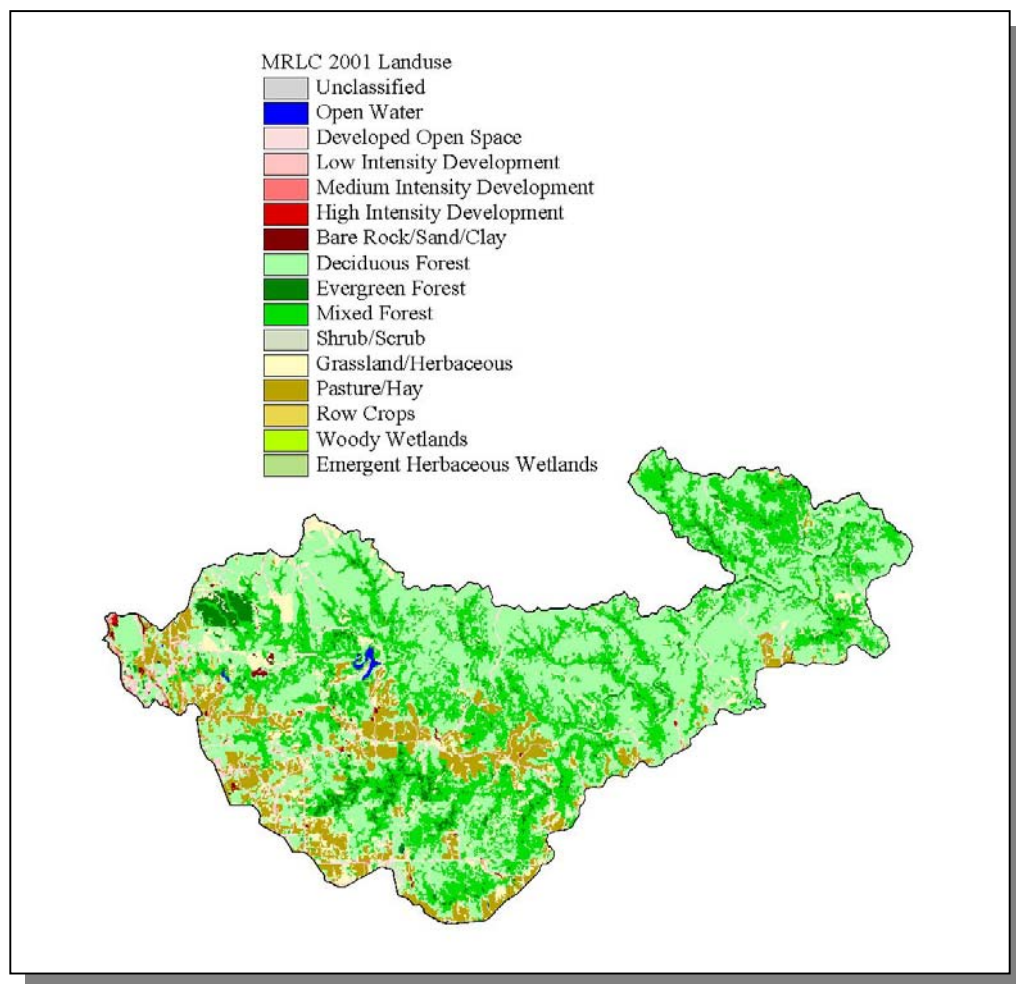


Figure 4-184. Illustration of Land Use Distribution in Subwatershed 051301040501.

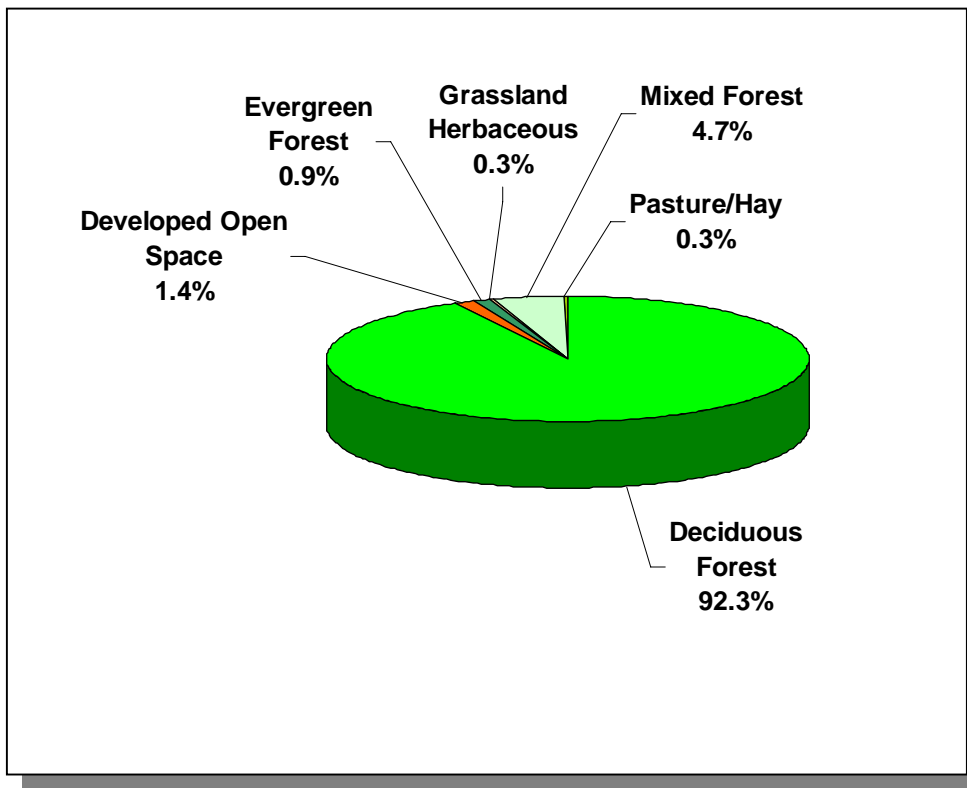


Figure 4-185. Land Use Distribution in Subwatershed 051301040501. More information is provided in Appendix IV.

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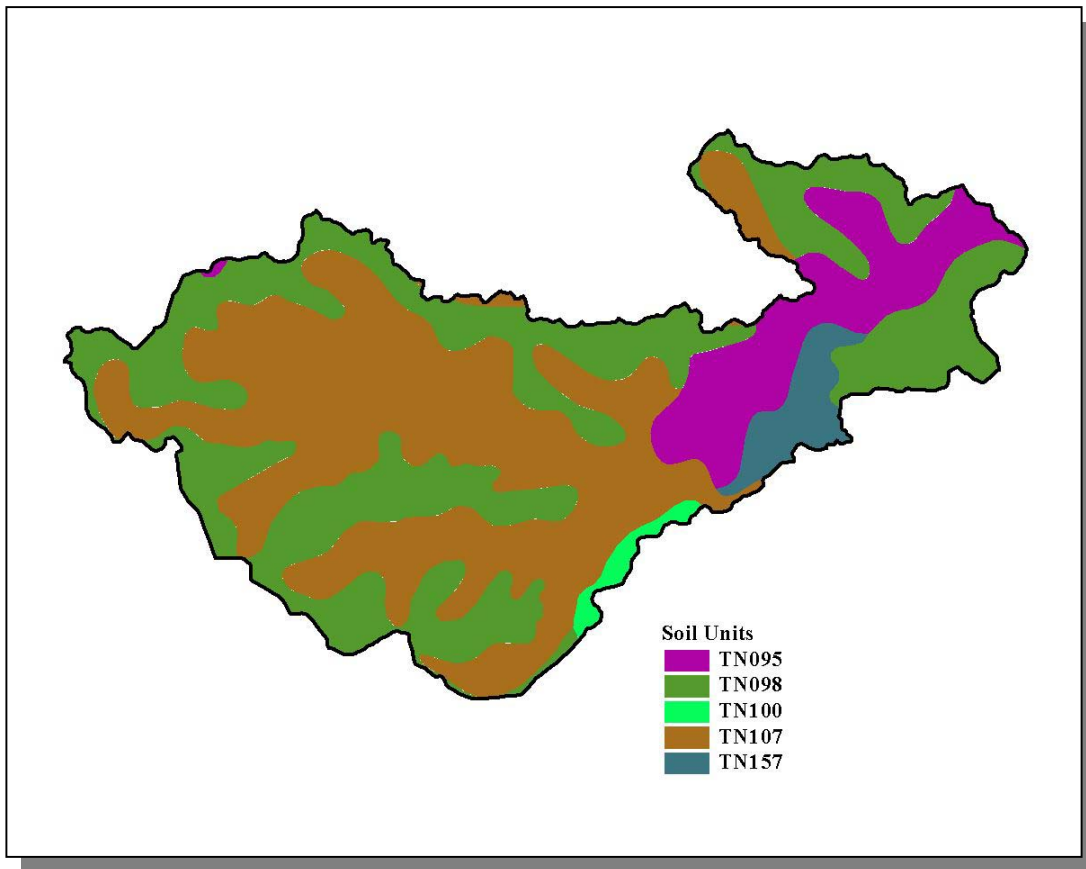


Figure 4-186. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040501.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN100	0.00	B	1.14	3.35	Silty Loam	0.21
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-148. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040501. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	12.69	1,861	2,020	2,109	13.3
Scott	18,358	19,816	21,127	0.7	128	138	147	14.8
Total	33,027	35,736	37,752		1,989	2,158	2,256	13.4

Table 4-149. Population Estimates in Subwatershed 051301040501.

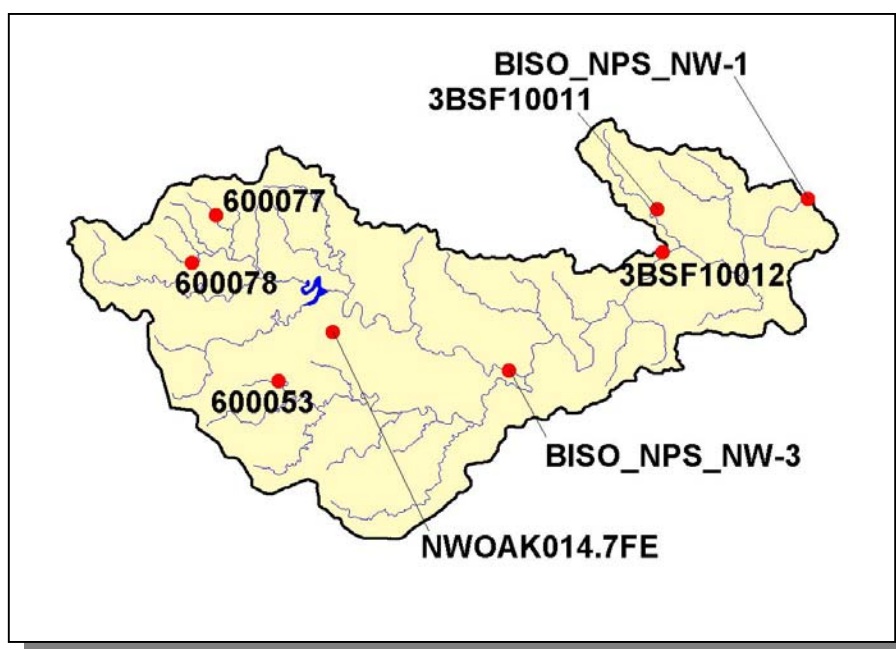


Figure 4-187. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040501. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.E.i.a. Point Source Contributions.

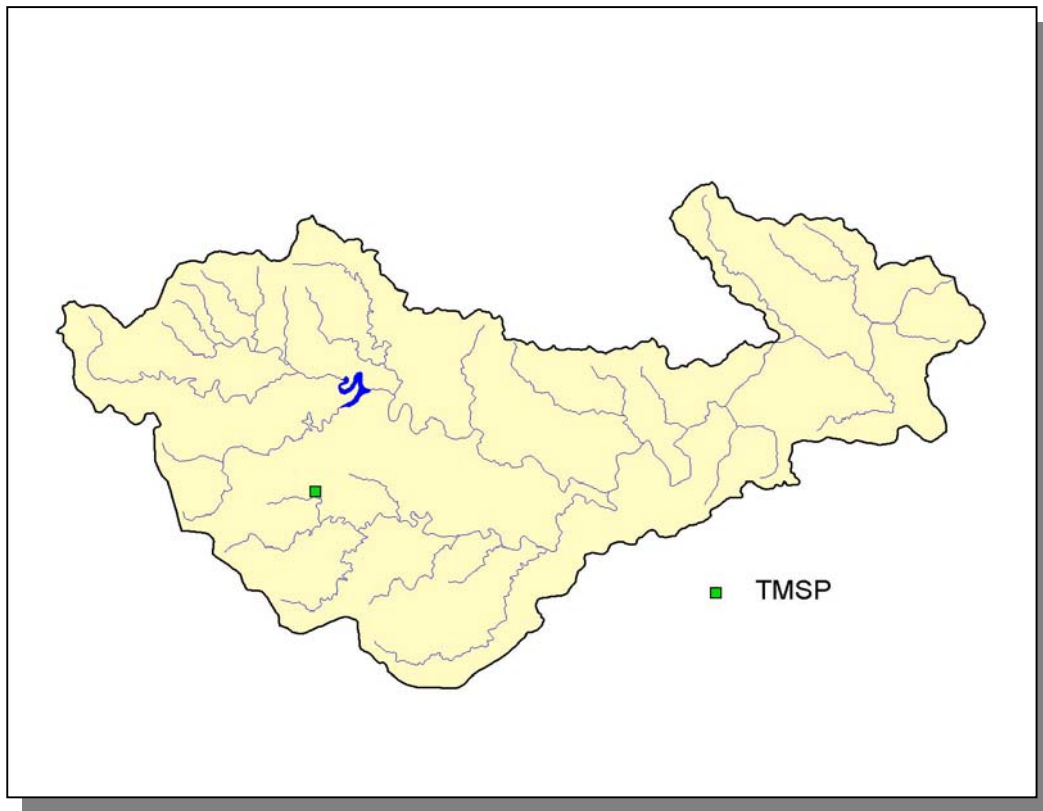


Figure 4-188. Location of Permits Issued in Subwatershed 051301040501. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-189. Location of TMR Sites in Subwatershed 051301040501. More information, including the names of facilities, is provided in Appendix IV.

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4.2.E.i.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
916	1,963	49	<5	829,146	83	9

Table 4-150. Summary of Livestock Count Estimates in Subwatershed 051301040501.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-151. Summary of Livestock Count Estimates in Fentress and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Scott	300.3	300.3	5.5	21.4

Table 4-152. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.70
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.29
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.38

Table 4-153. Annual Estimated Total Soil Loss in Subwatershed 051301040501.

4.3.E.ii. 051301040502 (Laurel Fork).

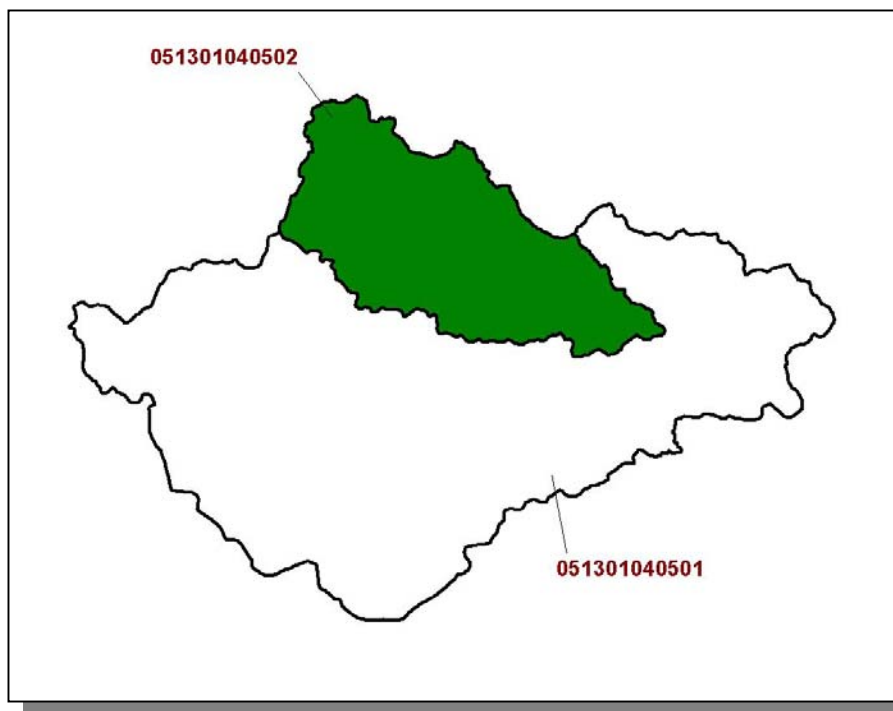


Figure 4-190. Location of Subwatershed 051301040502. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

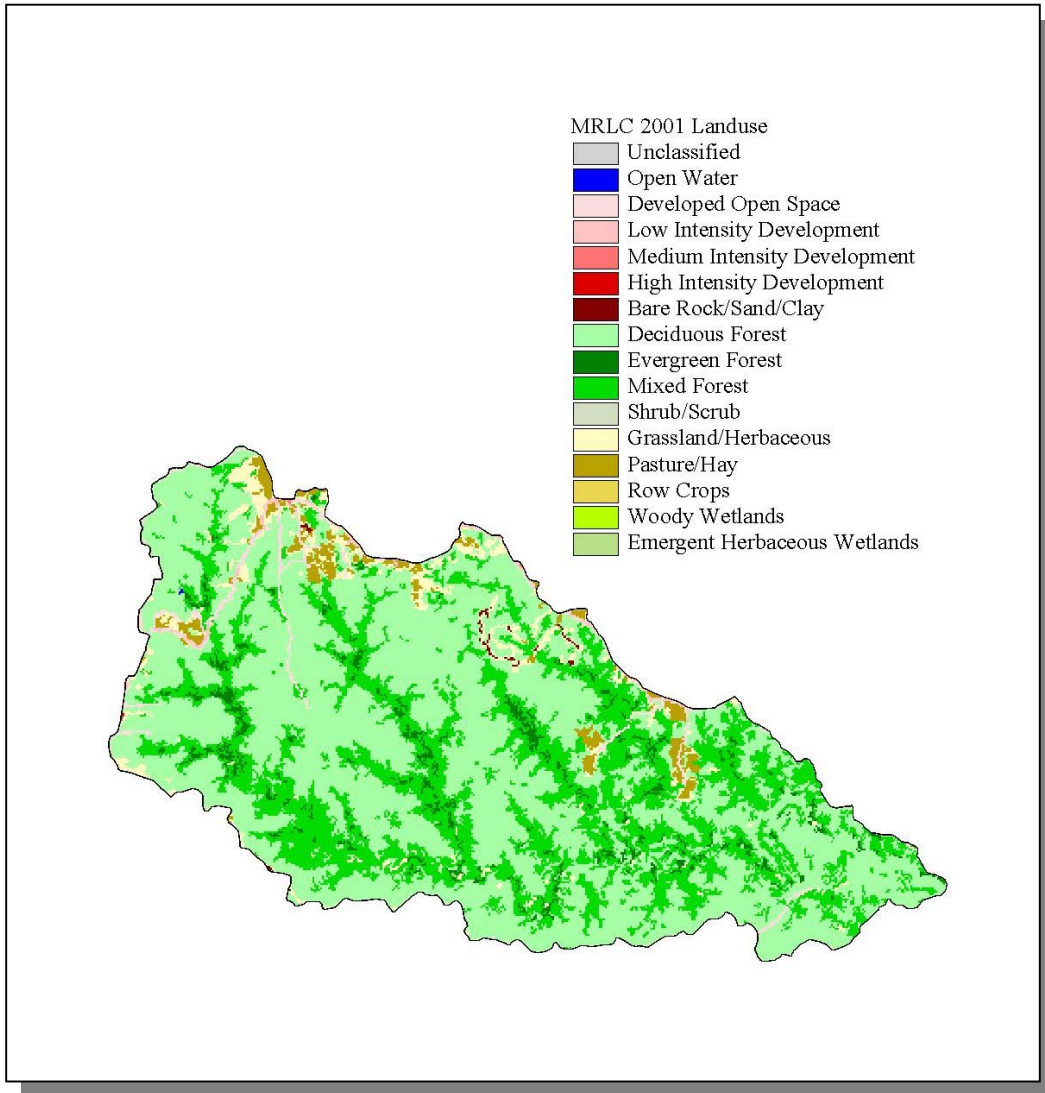


Figure 4-191. Illustration of Land Use Distribution in Subwatershed 051301040502.

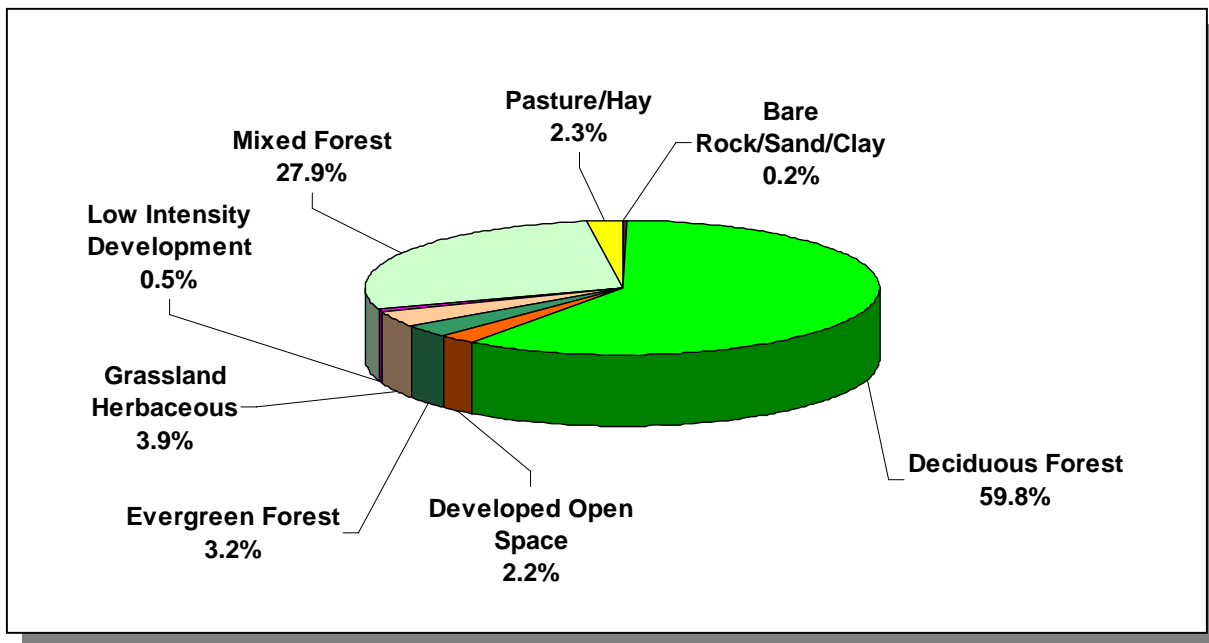


Figure 4-192. Land Use Distribution in Subwatershed 051301040502. More information is provided in Appendix IV.

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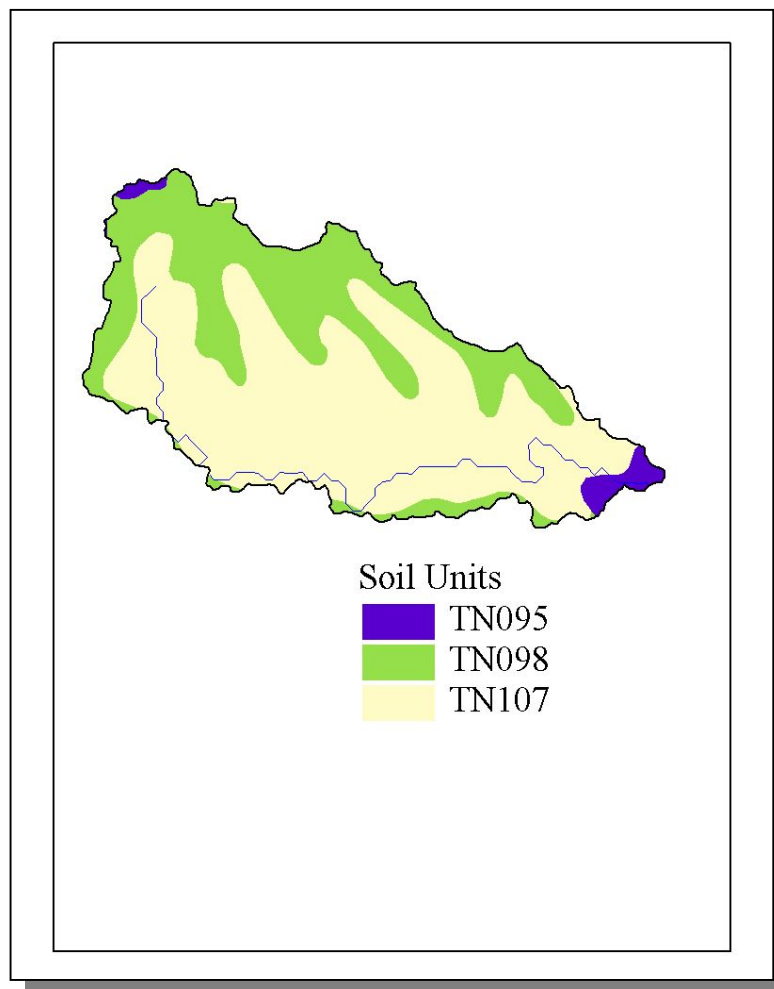


Figure 4-193. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040502.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-154. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040502. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	4.32	634	688	718	13.2

Table 4-155. Population Estimates in Subwatershed 051301040502.

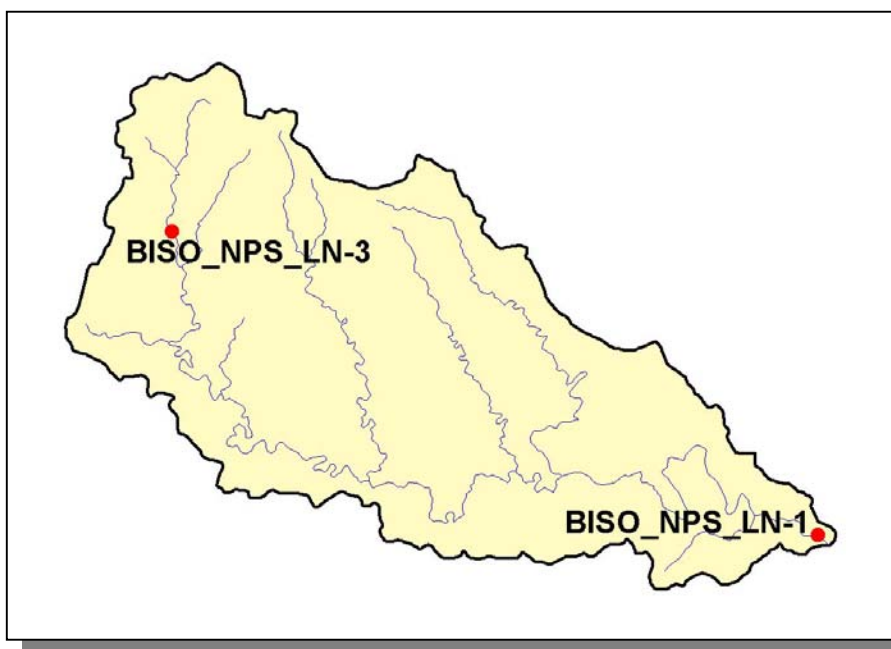


Figure 4-194. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040502. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.3.E.ii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.E.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs	Sheep
75	161	<5	68,091	7	<5

Table 4-156. Summary of Livestock Count Estimates in Subwatershed 051301040502. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79

Table 4-157. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3

Table 4-158. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.40

Table 4-159. Annual Estimated Total Soil Loss in Subwatershed 0604000401.

4.2.F. 0513010407.

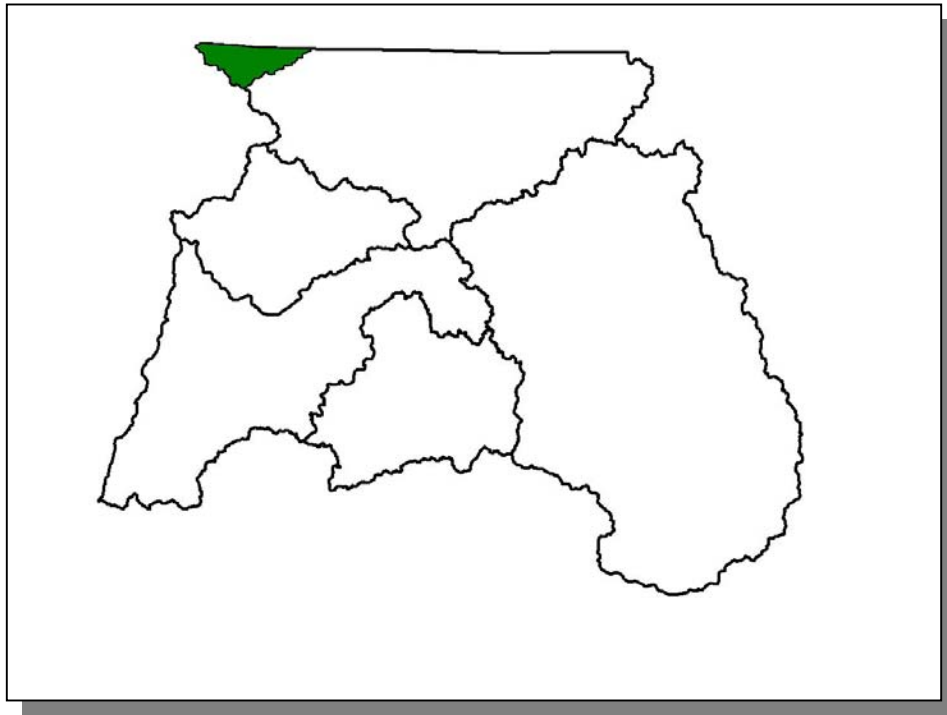


Figure 4-195. Location of Subwatershed 0513010407. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.3.F.i. 051301040701 (Little South Fork).

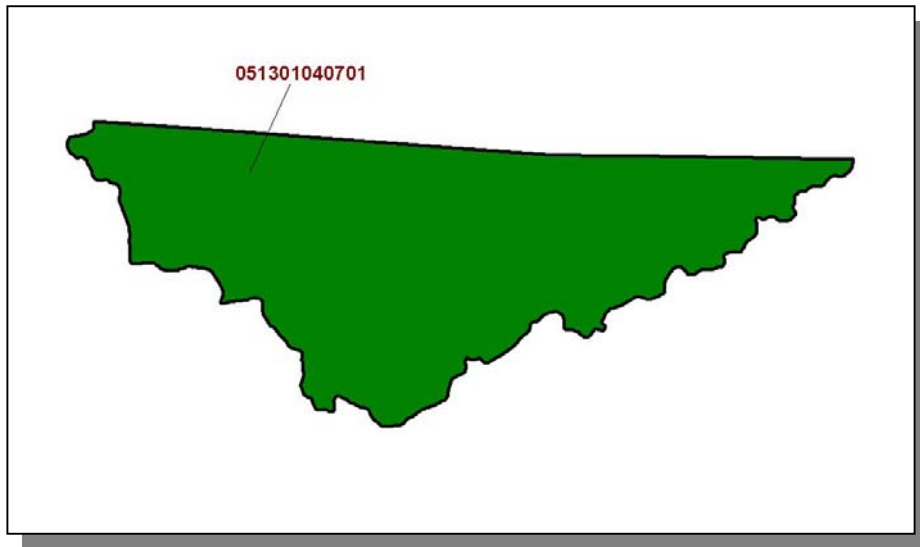


Figure 4-196. Location of Subwatershed 051301040701. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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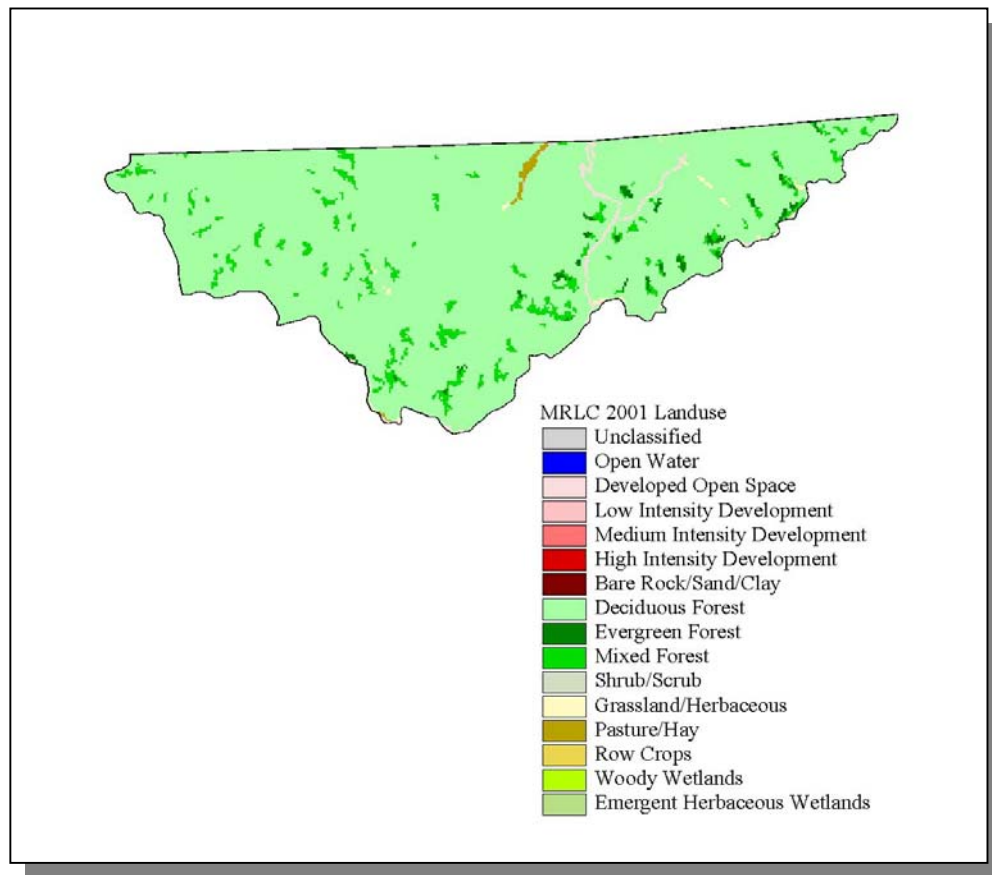


Figure 4-197. Illustration of Land Use Distribution in Subwatershed 051301040701.

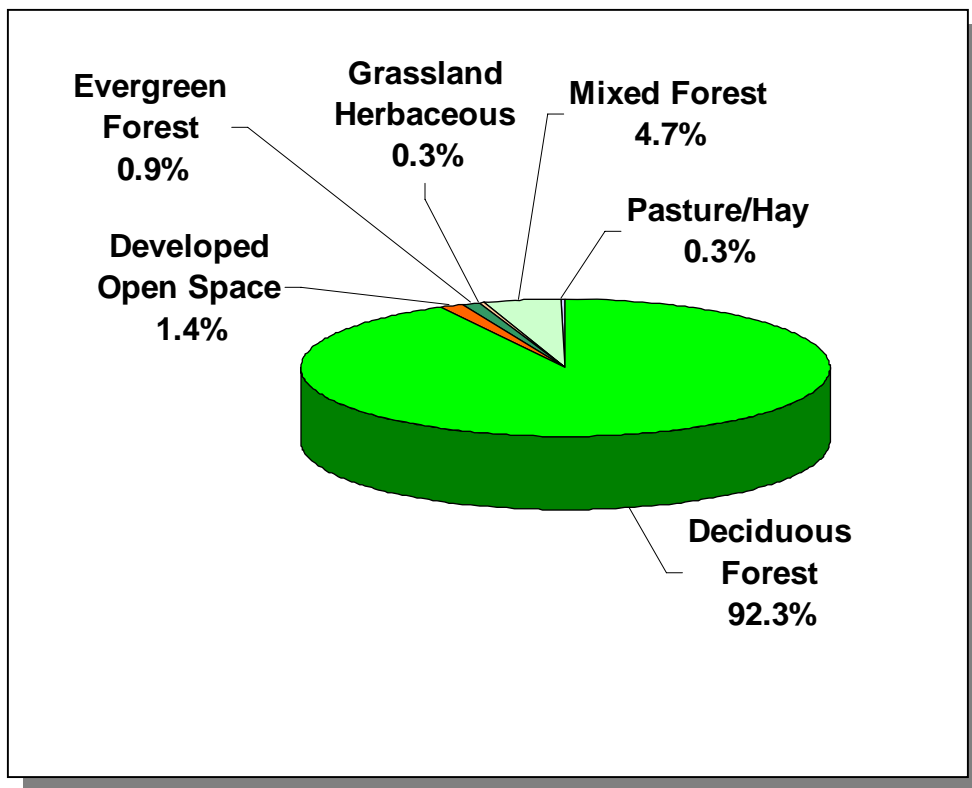


Figure 4-198. Land Use Distribution in Subwatershed 051301040701. More information is provided in Appendix IV.

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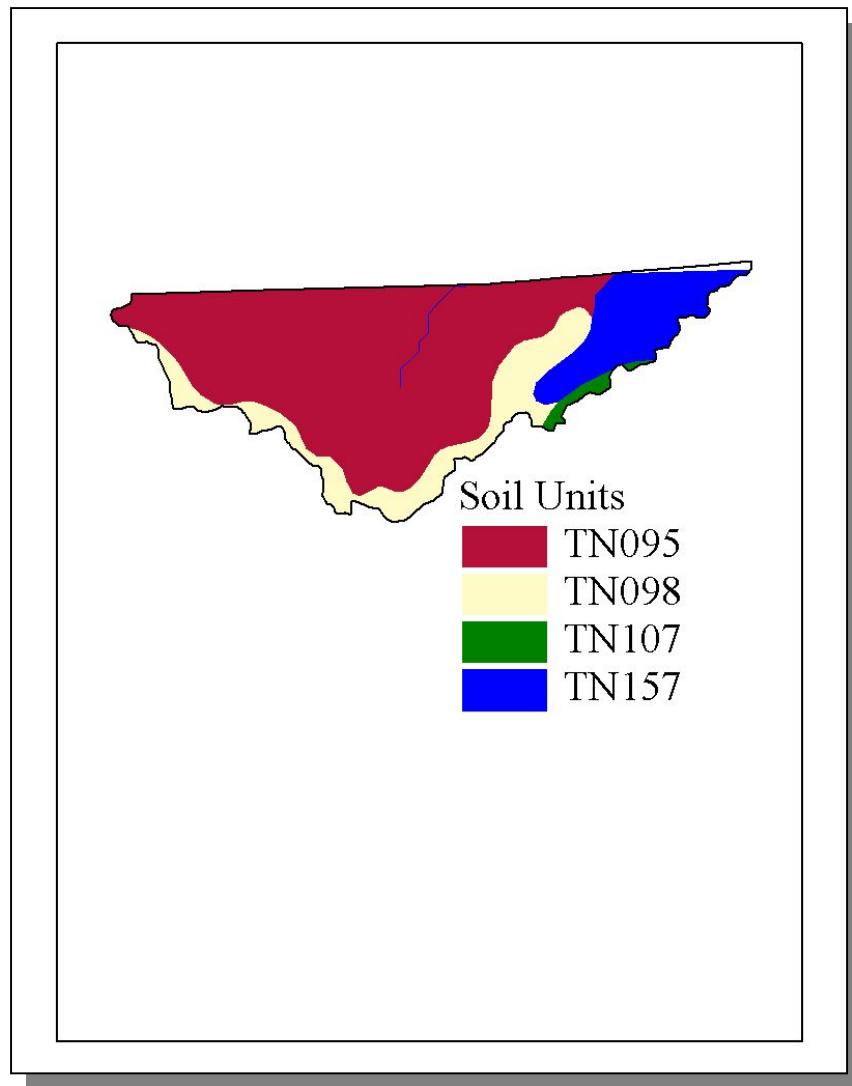


Figure 4-199. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040701.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-160. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040701. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fentress	14,669	15,920	16,625	0.02	3	3	3	0.0
Pickett	4,548	4,631	4,945	5.54	252	257	274	8.7
Total	19,219	20,551	21570		255	260	277	8.6

Table 4-161. Population Estimates in Subwatershed 051301040701.

4.3.F.i.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.F.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS			
Beef Cow	Cattle	Chickens (Broilers Sold)	Hogs
88	161	127	<5

Table 4-162. Summary of Livestock Count Estimates in Subwatershed 051301040701. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Pickett	5,986	10,864	19		285	99	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-163. Summary of Livestock Count Estimates in Fentress, Pickett, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

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County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fentress	244.1	244.1	3.6	14.3
Pickett	68.4	68.4	0.2	0.6
Scott	300.3	300.3	5.5	21.4

Table 4-164. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Pickett, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.10
Grass (Hayland)	0.11
Legumes, Grass (Hayland)	0.07
Grass, Forbs, Legumes (Mixed Pasture)	0.70
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Tobacco (Row Crops)	23.18
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	7.34

Table 4-165. Annual Estimated Total Soil Loss in Subwatershed 051301040701.